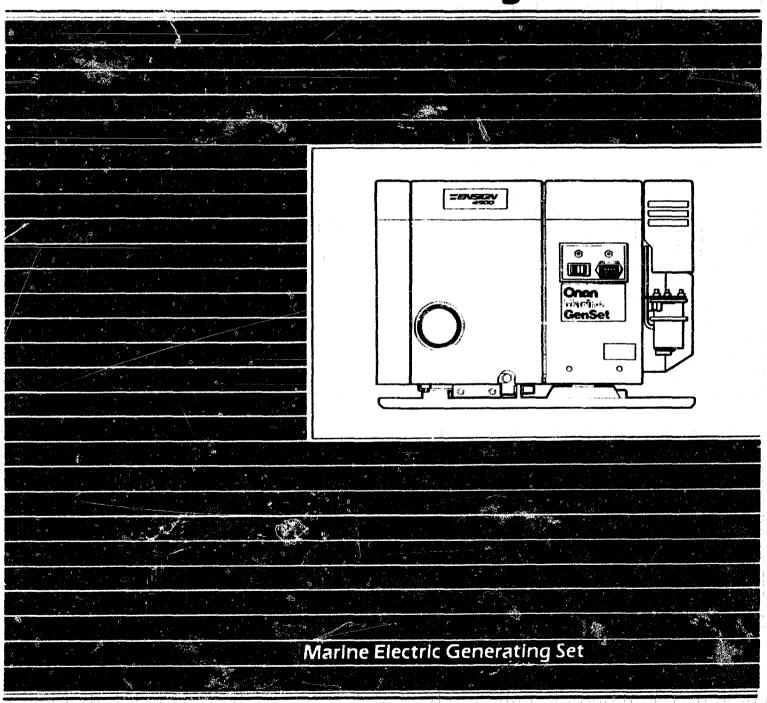
The following catalog has gaps in its page numbers, or doesn't have any numbers. We have chosen to leave the page numbering in the order that Acrobat assigns it.

Onan

PARTS CATALOG

MCE Ensign **Generating Set**



927-0225 4-91 (Spec A) Replaces 2-90 (Spec A) Printed in U.S A

SAFETY PRECAUTIONS

The following symbols are used in Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of the equipment and replacement of parts. Please read and observe.

ADANGER

This symbol warns of immediate hazards which will result in severe personal injury or death.

AWARNING

This symbol refers to a hazard or unsale practice which can result in severe personal injury or death.

ACAUTION

This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.

MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO., and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below:

MODEL AND SPECINO

SERIAL NO

PRODUCT SAFETY PRECAUTIONS

AWARNING

Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.

AWARNING

Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!

AWARNING

Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives, or using solvents take all necessary precautions not to ingest, breathe the fumes, or contact the liquids. Use adequate ventilation and wear protective gloves, masks and clothing!

Introduction

This catalog applies to the standard Marine Generator Sets as listed in the Generator Set Data Table. Pats are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Unless otherwise mentioned in the description, parts are interchangeable between models. Parts illustrations are typical. Using the model and specification number from your generator set nameplate, select parts that apply to your set. Right and Left sides are determined by Facing the engine (front) of the set.

Generator Set Data Table

MODEL AND	ELECTRICAL DATA								
SPECIFICATION	WATTS	VOLTS	HERTZ	WIRE	PHASE	FUEL	COOLING		
.5MCE-A/1A	4500	120	60	2	1	Gasoline	1.		
.5MCE-8/1A	4500	120/240	60	3	1	Gasoline			
.5MCE-A/35887A	4500	120	60	2	1	Gasoline	Х		
.5MCE-B/35887A	4500	120/240	60	3	1	Gasoline	X		
S.OMCE-M/1A	5000	220	50	2	1	Gasoline	1		
.OMGE-M/35887A	5000	220	50	2	1	Gasoline) x		
S.5MCE-A/1A	6500	120	60	2	1	Gasoline	ì		
S.5MCE-B/1A	6500	120/240	60	3	1	Gasoline	•		
5.5MCE-A/35887A	6500	120	60	2	1	Gasoline	X		
5.5MCE-B/35887A	6500	120/240	60	3	1	Gasoline	X		

^{* -} The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letters. The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A, to B, to C, etc.) with major manufacturing changes.

NOTE:

Components Sold As An Assembly Will Be Assembled At The Factory.

Index

Adapter, Carburetor (Mach) 23 Adapter, Filter - 0il 14 Decal. Panel - Basic. Deluxe & Meter 44,45,46 Diaphram 23 Adapter, Generator (Mach) 3' Adapter, Pipe 41 Arm and Shaft - Governor 11 Diode and Lead 45 Drain, Filter - Oil 14 Arrestor, Spark 23 Arrestor, Tube - Breather 23 Edging 41 Elbow, Drain 35 Elbow, Flare - Inverted Ball, Bearing 6,11 Elbow. Hose 13,27,29,35 Elbow. Hose - 90° 5,31 Elbow. Male - Inverted 41 Base, Oil 13 Bearing, Needle - Upper and Lower 11 Bearing, Rod - Connecting 8 Bearing, Sleeve - Camshaft 5 Elbow, Street - 90° Pipe 20 Belt, Pulley 31
Block, Brush - Generator 43
Block, Cylinder 5
Block with Terminal 43 Element, Thermostat 23 Exchanger, Heat 29 Filter, Oil Bolt, Place & Box, Control 39,41 Fitting 27 Filter, Fuel 23 Fitting. Elbow - Inverted Male 23 Flywheel (Mach) 7 Bracket, Pump - Water 31 Bracket, Charger - Battery Bracket, Coil - Ignition Fuse, 10 Amp 41 Bracket, Control - 39,41 Bracket, Diaphram 23 Bracket, Exchanger - Hea: 29 Gauge, Pressure - 0il 46 Gauge, Temperature - Coolant Gasket, Adapter 23
Gasket, Adapter - Oil Filter
Gasket, Arrester - Flame 23
Gasket, Base - Oil 13
Gasket, Carburetor 23 Bracket, Frame - Housing 49 Bracket, Front - Housing 49 Bracket, Governor 27 Bracket, Inlet - Water 29 Bracket, Isolation (DC) 43
Bracket, Lift 5
Bracket, Pump - Fuel 43 Gasket, Cover - Valve Gasket, Exhaust 27 Bracket, Side Panel 51 Gasket, Gearcase 11 Gasket, Guide - Intake Valve Gasket, Head 5 Breaker and Terminal 41 Breaker, Circuit 37,39 Bridge, Rectifier 39 Gasket, Housing - Thermostat Gasket, Manifold - Intake 23 Bushing 41,43 Gasket, Plate - Bearing 5 Gasket, Resonator 23 Cable, Bond 37 Camshaft 6
Cap, Fill - Oil 13
Cap, Radiator 27 Gear, Camshaft 6 Gear, Crankshaft 7 Gearcase 11 Generator 37 Carburetor 23 Charger, Battery 19 Clamp, Hose 5,13,23,27,29,31,35 Clamp, Stator 43 Governor 6.11 Grommet 43,49 Guide, Valve - Intake and Exhaust 5 Clip, Cable 11 Clip, "U" 23 Clip, Retaining 23 Harness, Block - Brush 43
Harness, Control (DC) 41
Harness, Wiring - Remote Control
Panel 44,45,46 Cock, Drain 35 Coil, Battery - Ignition 17 Components, Carburetor, 24 Components, Pump - Water 32 Head, Cylinder 5 Holder, Fuse 41 Hose 31
Hose, Coolant 5,13,29,35
Hose, Rubber - Preformed 5
Hose, Vacuum 23 Components, Starter 15 Condenser 17 Control (AC) 39 Control (DC) 41 Control, Ignition 11 Housing, Choke 23 Cover, Brush - Block 43 Haising, Connector 46 Cover, Brush - Block 43
Cover, Control (AC) & (DC)
Cover, Hole - Fuel Pump 20
Cover, Housing - Choke 23
Cover, Return - Fuel 23
Cover, Siphon 51
Cover, Valve 5
Crankshaft 8 Housing, Engine (Left Hand) 51 Housing, Engine (Right Hand) 51 Housing, Engine (Top) 51 Housing, Frame Assembly 4 Housing, Guard - Belt 51 Housing, Machine - Stator Housing, Gen Set 50 Cup, Governor Housing, Thermostat Cup. Intake - Oil Pump 13 Hub, Governor 6

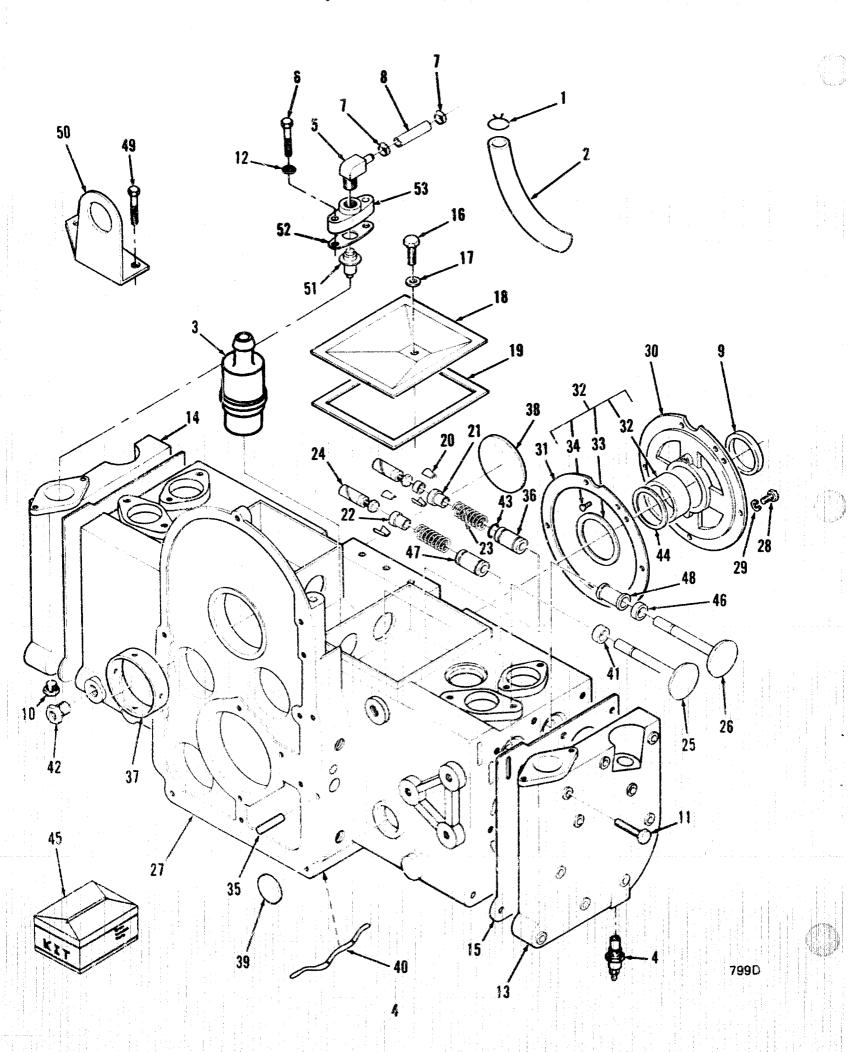
Index

Index, Numerical 53.54.55.56
Indicator, Level - Oil 13
Insulator, Module - Ignition 11
Issulator, Fuel Pump 37
Isolator, Vibration 9 Pump. Fuel 20.43 Pump. 0:1 13 Pump. Water Rectifier, Silicon 43 Regulator 43 Relay, Solenoid - Start 18.43 Joint, Ball 11 Resonator 51 Ring. Retaining 6.7,8,23,32 keel Cooling 34 Key, Flywheel 7
Key, Woodruff 6,7
kit, Accessory 51
kit, Bearing - Crankshaft 5 Ring. 0 13,32 Roa, Connecting 8
Rod, Control - Governor 11 Rotocap. Spring - Exnaust Valve 5 Kit. Cup - Governor 6 kit. Gasket - Engine 5,52 tit. Gasket - Oil Pump 13,52 Rotor 37 Rotor, Ignition 17 Seal, Oil 5
Seal, Oil - Crankshaft 11
Seal, Oil - Governor Shaft
Seal, fube - Oil Fill 13
Sealant, Thread 52 Kit. Panel - Basic Remote Control 44
Kit. Panel - Deluxe Remote Control 45
Kit. Panel - Meter Remote Control 46 Kit. Kina Set tabels, Miscellaneous Variety 51,52 Seat. Vaive - Intake and Exhaust 5 Sender, Pressure - Oil 46 Label, Negative - Battery 37.52 Label, Neutral 39.52 Label, Warning - Shipping, Danger, Sender, Temperature - Water 46 Shaft with Lever 23 Shim, Bearing - Thrust 5 No Step, and Certification 51.52 Lead, Start Solenoid 43 Lead, Starter 43 Lead, Tension - High 17 Line, Fuel 43 Silkscreen 41,51,52 Spacer, Threaded 23 Spring, Needle - Idle 11 Spring. Retaining - Governor Spring. Valve 5 Spring. Valve - 8ypass 13 Line, Return - fuel 23 Link, Spring - Governor 11 Standoff, Insulator 39 Starter 15,36 Linkage, Choke 23 Starter 13 Stator 43 LOCK, Stem - Valve Stud 23
Stud, Adjusting - Governor 11
Switch, Exhaust Temperature - hi 27 Manifold, Exhaust (Mach) 27 Manifolu, Intake (Mach) 23
Meter, Totalizing - Time 41.45.46
Meter, Condition - Battery 45 Switch, Pressure - Low Oil 13,41 Switch, Rocker 41,44,45,46 Meter, Voitage 46 Tap. Terminal 43
Tappet. Valve 5
Tee. Low Oil Presssure Switch 41 Neck. Filler 27 Pan, Drib 9 Panel, Remote 46 Toe. Pipe - Special 41 Thermostat. Byoass 5 Tie. Cable 41 Transformer, Regulator Panel: Control - Basic 44 Panel: Control - Deluxe 45 PCB. Monitor - Engine 41
Pencil. Zinc 29
Pin. Contact 46
Pin. Dowel 5
Pin. Drive - Headed 5 Tube. Breather 5.23 Tube. Coolant 29.35 Tube, Exchange - Heat Tupe, Fill - Oil 13 Tube, Housing - Chake Tube, Oii 5 Pin, Governor 6 Pin: Roll - Yoke Stop 11 Piston and Pin 8 Plate. Bearing - Rear 5 PLate. Breaker - Circuit 39 Plate. Resonator 23 Valve, Bleeder 29 Valve, Orain 13 Valve, Exhaust and Intake 5 Pidg, Expansion 5 Varnish, Insulating 52 Plug Pipe - Hex Head 5,41 Plug Spark 17 Plug Weish 27 Yoke, Governor 11

Plunder, Valve - Bypass 13 Pulley 31 Pump, fuel 43

13

Pump, Coolant

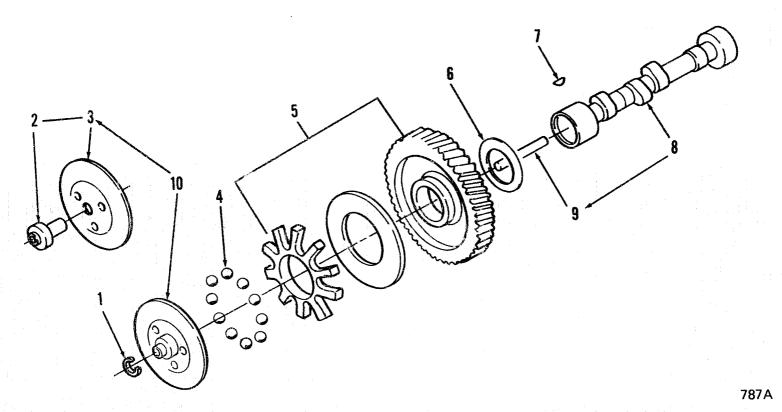


Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	503-0170	2	Clamp, Rose	31	101-0115	ì	*Gasket, Plate - Bearing
2	503-0761	1	Hose, Rubber - Preformed	32			Bearing Kit, Crankshaft
3	123-1784	1	Tube, Breatner				(Includes Thrust Washer)
4	309-0601	1	Thormostat, Open at 202°F		101-0450	2	* Standard
5	502-0942	1	Elbow, Hose - 90* (5/8)		101-0450-02	2	.002" Undersize
6	800-0007	4	Screw, Cap - Hex Head		101-0450-10	2	.010" Undersize
			$(1/4-20 \times 1")$		101-0450-20	2	.020" Undersize
7	503-0977	2	Clamp, Hose		101-0450-30	2	.030" Undersize
8	503-1690-02	1	Hose, Coolant	33	104-0575	2	*Washer, Thrust
9	509-0041	1	Seal, Oil (In Gasket Kit	34	516-0072	2	*Pin, Drive - Headed
			168-0149)				(.190" Dia. x 11/32")
10	502 -0153	ī	Plug, Pipe - Hex Head (Brasc)	35	516-0141	2	*Pin, Dowel (5/16" Dia. x 78")
11	800-0509	18	Screw, Cap - Hex Head	36	110-1827	4	*Guide, Valve - Intake
			(Special)	37	101-0367		**Bearing, Sleeve - Camshair
12	850-0040	4	Washer, Lock (1/4")	38	517-0048	1	*Plug, Expansion (1-5/8 Dia.)
13	110-3621	1	Head; Cylinder - Right Side		517-0011	8	*Plug, Expansion (1-1/4 Dia.)
14	110-3622	ĩ	Head, Cylinder - Left Side	40	120-0386	ī	*Tube, Oil
15	110-3611	2	Gasket . Head	41	120 000	-	Seat, Valve - Exhaust
16	800-0012	2	Screw, Cap - Hex Head	• -	110-0872	2	* Standard
10	000 0012	-	$(1/4-20 \times 2-1/4")$		110-0872-02	2	.002" Oversize
17	5260063	4	Washer, Flat - Copper (1/4)		110-0872-05	2	.005" Oversize
18	110-0666	2	Cover, Valve		110-0872-10	2	.010" Oversize
19	110-3606	2	Gasket, Cover - Valve		110-0872-25	2	.025" Oversize
20	110 -0639	8	Lock, Stem - Valve	42	502-0028	ī	Plug, Pipe - Hex Head (1/8)
21	110-0893	2	Washer, Retainer - Intake Valve		110-3136	2	*Gasket, Guide - Intake Valve
	220 0000	-	Spring	44	104-0776	1	Shim, Bearing - Thrust
22	110-0904	2	Rotocap, Spring - Exhaust	45	168-0195	ī	Kit, Gasket - Engine
			Valve	46			Seat, Valve - Intake
23	110-0539	4	Spring, Valve		110-1000	2	* Standard
24			Tappet, Valve		110-1000-02	2	.002" Oversize
•	115-0006	4	Standard		110-1000-05	2	.005" Oversize
	115-0006-02	4	.002" Oversize		110-1000-10	2	.010" Oversize
	115-0006-05	Ą	.005" Oversize		110-1000-25	2	.025" Oversize
25	110-0880	2	Valve, Exhaust (Chrome Cobalt	47	110-0902	2	Guide, Valve - Exhaust
20	110 0000	-	Alloy)	48	110-3604	2	Seal, Oil - Valve Stem - Intake
26	110-1037	2	Valve, Intake (Steel)	49	800-0028	2	Screw, Cap - Hex Head
27	110-3627	1	Block, Cylinder	40	000 0020		$(5/16-18 \times 1")$
21	110 0027		(Includes Parts Marked *)	50	403-2918	1	Bracket, Lift
28	800 -0512	5	*Screw, Cap - Hex Head	51	400 2010	-	Thermostat, Bypass
20	000 0012	•	(Special)	Q ±	309-0130	2	Keel Cooled (140°)
29	850-0045	5	*Washer, Lock - Spring (5/16")	•	309-0289	2	Heat Exchanger Units (180°)
30	101-0390	1	*Plate, Bearing - Rear (Less	52	309-0186	2	Gasket, Housing - Thermostat
30	101 0030	1	Bearing)	53	309-0185	2	Housing, Thermostat

^{* -} Parts Included in 110-3627 Cylinder Block ** - Units with Hi-Lift Cam, Use 101-0405 Bearing(1)

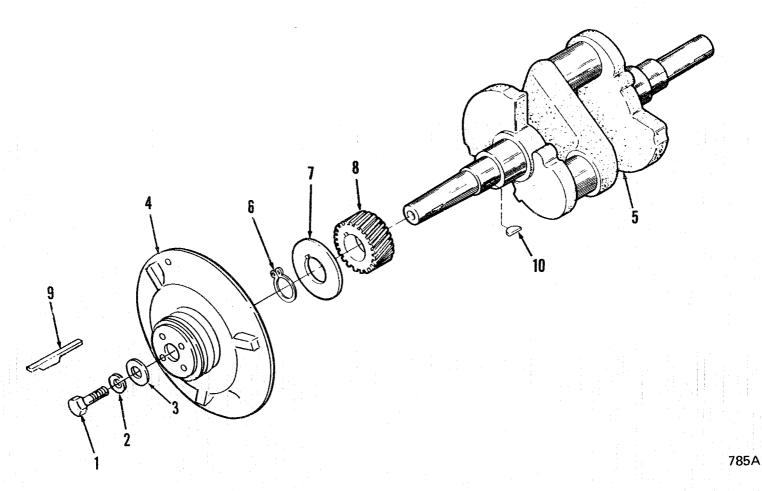
Governor and Camshaft



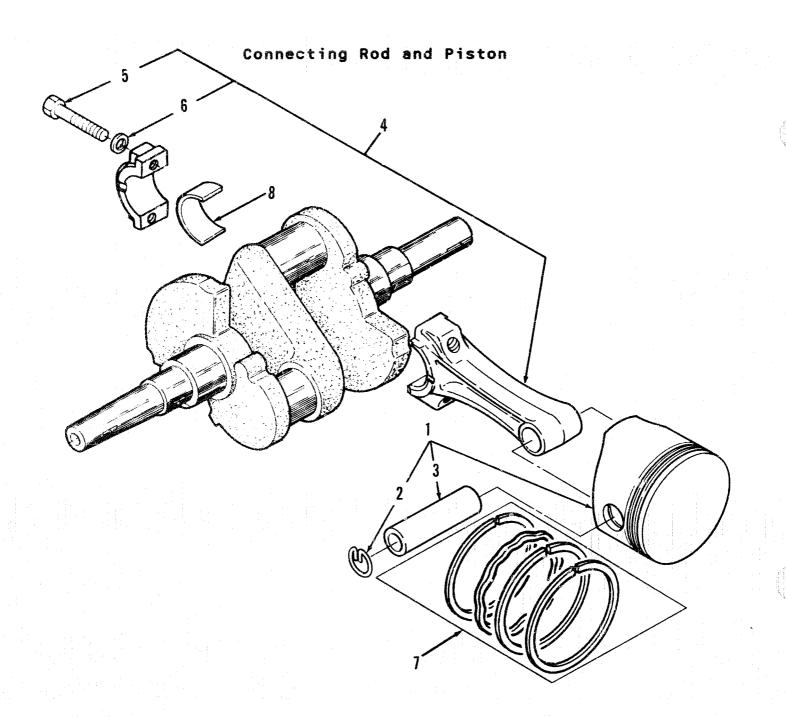
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-0078		Ring, Retainer - Governor Pin	7	515-0001	1	Key, Woodruff (1/2" Dia. x
3	150-1519 150-1520	4.7	Hub, Governor Cup, Governor	8	105-0140	1	1/8" Thk) Camshaft (Includes Center
4	510-0015	10	Bearing, Ball				Pin)
5	105-0332	1	Gear, Camshaft	9	150-0075	1	Pin, Governor
			(Includes Spacer and Plate)	10	150-1695	1	Kit, Cup - Governor (Includes
6	105-0541	1	Washer, Thrust			1 1	Parts Marked *)

^{* -} Parts Included in 150-1695 Governor Cup Kit

Crankshaft and Flywheel

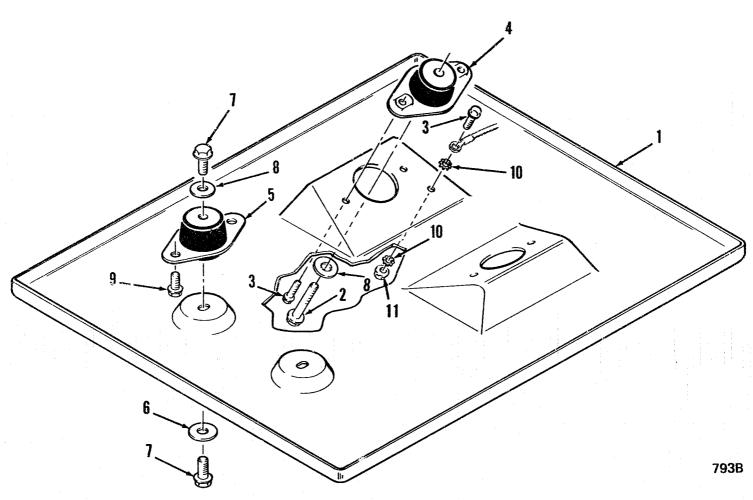


RE		PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	1	04-0170	1	Screw. Cap - Hex Head	6	518-0014	1	Ring, Retaining
_	–	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		(Special)	7	1040043	1	Washer, Retaining - Gear
2	2 8	500055	1	Washer, Lock - Spring (7/16")	8	104-0032	1	Gear, Crankshaft
3	3 5	26-0017	1	Washer, Flat (7/16)	9	515-0284	1	Key, Flywheel
4	1 1	04-1729	 1	Flywheel (Mach)	10	515-0001	1	Key, Woodruff (1/2" Dia. x
5	1	04-1728	1	Crankshaft				1/8" Thk)

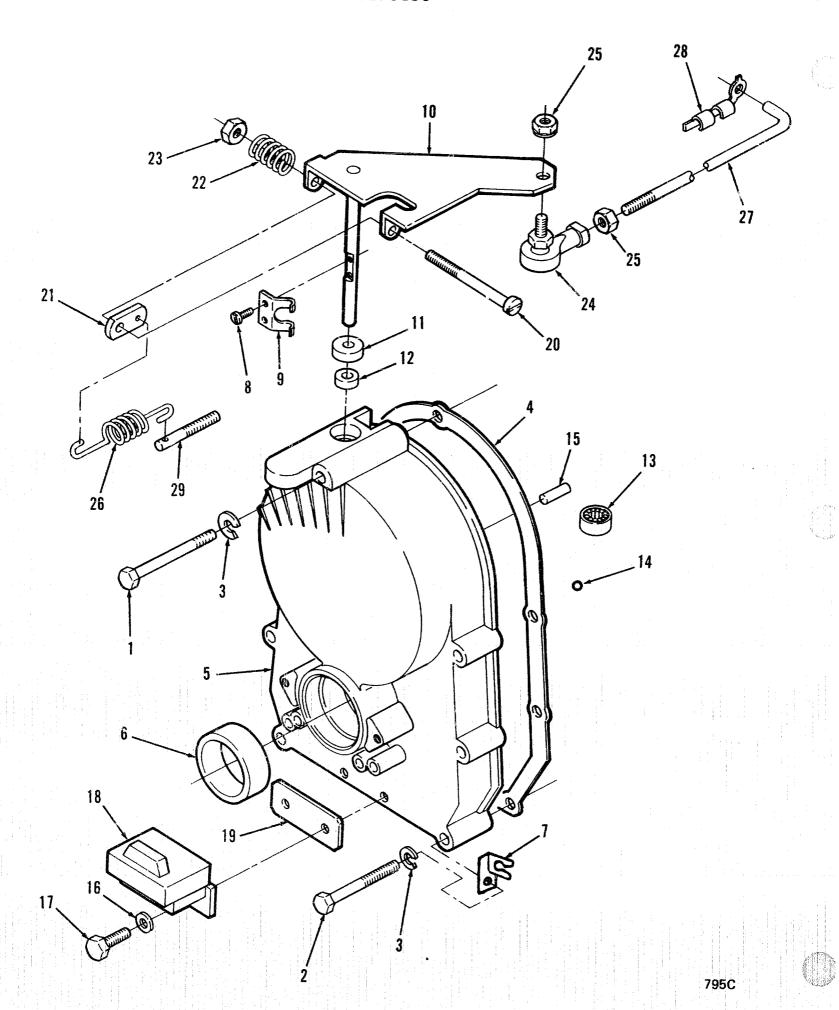


REF NO.	PART NO.	QTY USE		REF	PART NO.	QTY USED	PART DESCRIPTION
1			Piston and Pin (Includes	6	114-0059	4	Washer, Lock - Connecting Rod
1 - 1			Retaining Rings and Wrist	7			Kit, Ring Set - Piston
1			Pins)		113-0238	2	Standard
	112-0179	- 2	Standard		113-0238-05	2	.005" Oversize
	112-0179-05	2	.005" Oversize		113-0238-10	2	.010" Oversize
	112-0179-10	2	.010" Oversize		113-0238-20	2	.020" Oversize
	112-0179-20	. 2	.020" Oversize		113-0238-30	. 2	.030" Oversize
	112-0179-30	2	.030" Oversize		113-0238-40	2	.040" Oversize
	112-0179-40	2	.040" Oversize	8			Bearing, Connecting Rod
2	112-0003	4	Ring, Retaining		114-0188	4	Standard
3	112-0069	2	Pin, Wrist - Piston		114-0188-02	4	.002" Undersize
4	114-0203	2	* Rod, Cunnecting (Includes		114-0188-10	4	.010" Undersize
a Mari	intellar et et eller.		Screw and Lock)		114-0188-20	4	.020" Undersize
5	805-0010	4	Bolt, Place $(5/16-24 \times 1-1/4")$		114-0188-30	4	.030" Undersize

^{*} Note: Can Use Economy Connecting Rod P/N 114-0098 Without Bearing P/N 114-0188.



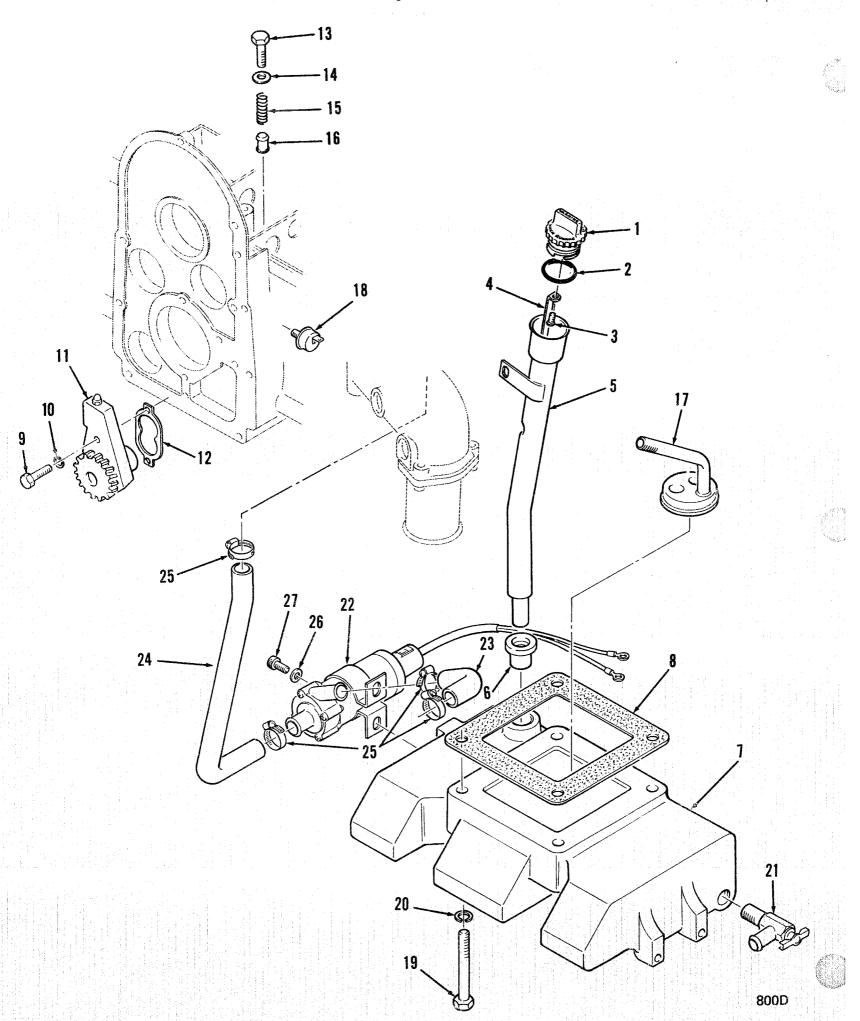
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-2890	1	Pan, Drip	8	526-0324	. 4	Washer, Flat (5/16")
2	815-0598	2	Screw, Hex Head - Thread	9	815-0508	4	Screw, Hex Head - Thread
			Forming (3/8-16 x 2-3/8")	1		14.5	Forming $(5/16-18 \times 3/4")$
3	821-0018	6	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")	10	856-0006	4	Washer, Lock - External, Internal Tooth (1/4")
4	402-0550	2	Isolator, Vibration - Engine	11	870-0212	1 , .	Nut, Hex - Flange Locking
5	402-0549	2	Isolator, Vibration - Generator				(1/4-20)
6	526-0240	2	Washer, Flat (3/8")				
7	821-0031	4	Screw, Self-Locking - Hex				
			Washer Head $(3/8-16 \times 3/4")$				



Gearcase

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF No.	PART NO.	QTY USED	PART DESCRIPTION
*	800-0034	ì	Screw. Cap - Hex Head	16	854-0010	2	Washer, Lock - IT
			$(5/16-18 \times 2-1/4^n)$	17	815-0340	2	Screw, Form - Thread (HWH)
2	114-0022	A	Screw, Cap - Hex Head				(8-32 x
			$(5/16-18 \times 1-3/4")$	18	166 -0785 -01	1	Control, Ignition
3	850 0045	5	Washer, Lock - Spring (5/16")	19	166-0786	1	Insulator, Module - Ignition
4	103 -0810	ī	Gasket, Gearcase	20	820-1077	1	Screw, Machine - Pan Head
5	103-0772	1	Gearcase (Includes Parts				$(10-32 \times 2-1/2 \text{ LG})$
			Markec *)	21	150-1998	1	Link, Spring - Governor
6	509-0040	1	*Seal, Oil - Crankshaft	22	141-0710	1	Spring, Needle - Idle
7	167-0188	1	Clip, Cable				•
- 8	815-0046	2	Screw. Machine - Pan Head.	23	870-0328	1	Nut. Hex - Self-Locking
			Cross-Recessed (#8-32 x 3/8")				(10-32)
3	150~1187	1	"Yoke Governor	24			Joint, Ball
10	150-2324	1	*Arm and Snaft, Governor		150-0939	1	1-7/64" Long
			(Includes Clip)		150-1358	1	1-7/32" Lorig
11	509-0008	1	*Seal, Oil - Governor Shaft	25	870-0131	2	Nut, w/ET - Hem Head
12	510-0013	1	*Bearing, Needle - Upper	26	150-2500	1	Spring, Retaining - Governor
13	510-0013	1	*Bearing, Needle - Lower	27	150-2475	1	Rod, Control - Governor
14	510-0014	1	*Ball, Bearing	28	518-0006	1	Clip
15	516-0130	ī	*Pin, Roll - Yoke Stoc	29	150-2325	1	Stud, Adjusting - Governor

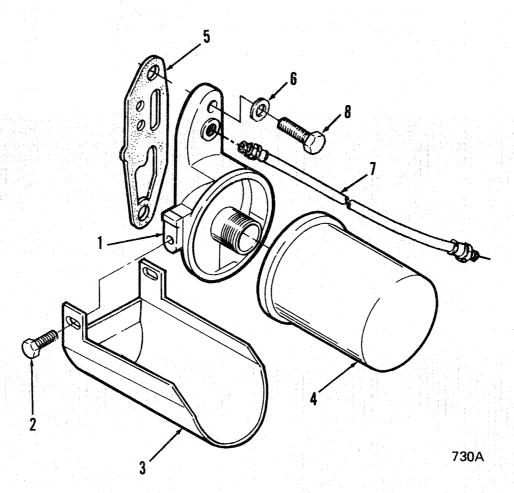
^{* -} Parts Included in 103-0772 Gearcase.



Oil System

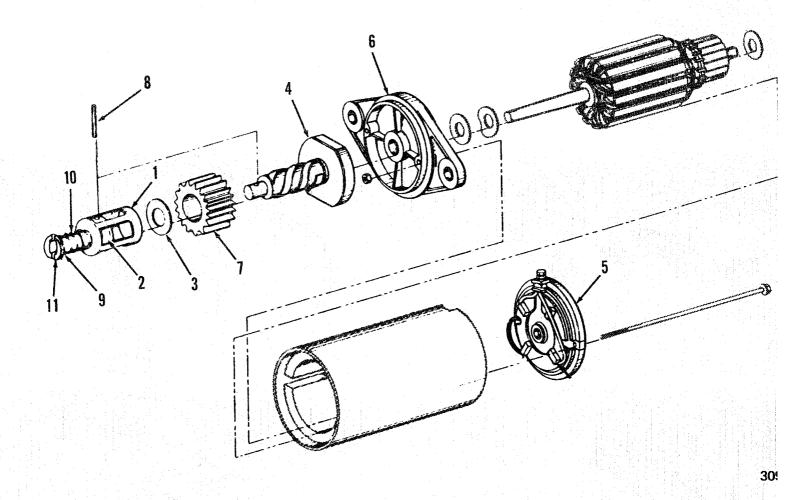
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	123-1858	1	Indicator and Cap	14	526-0066	1	Washer, Flat - Copper (3/8")
			(Includes Parts Marked *)	15	120-0140	1	Spring, Valve - Bypass
1	123-1647	1	*Cap, Fill - Oil	16	120-0398	1	Plunger, Valve - Bypass
2	509-0142	1	*O Ring (1" ID \times 1-1/4" OD \times	17	120-0413	1	Cup, Intake - Oil Pump
			1/8")	18	309-0113	1	Switch, Low Oil - Pressure -
3	815-0333	1	*Screw, Machine - Round Head				2 Terminal, Close at 9 PSI
			Thread Cutting (#10-32 \times 1/2")	19	102-0455	4	Screw, Cap - Hex Head (Special)
4	123-1857	1	*Indicator, Level - Oil	20	850-0050	4	Washer, Lock - Spring (3/8")
. 5	123-1856	1	Tube, Fill - Oil	21	504-0092	1	Valve, Drain
6	509-0269	1	Seal, Tube - Oil Fill	22	132-0326	1	Pump, Coolant
7	102-1374	1	Base, Oil	23	503-1687-02	1	Elbow, Hose
- 8	102-1369	1	Gasket, Base - Oil	24	503-1686	1	Hose, Coolant
9	800-0007	2	Screw, Cap - Hex Head	25	503-0977	4	Clamp, Hose
			$(1/4-20 \times 1")$	26	526-0018	2	Washer, Flat (1/4")
10	850-0040	2	Washer, Lock - Spring (1/4")	27	802-0032	2	Screw, Cap - Socket Head
11	120-0491	1	Pump, Oil				$(1/4-20 \times 1/2")$
12	120-0161	1	Kit, Gasket - Pump, Oil				
13	801-0048	1	Screw, Cap - Hex Head				
			$(3/8-24 \times 3/4")$	A	Parts Includ	led in	123-1853 Indicator and Cap.

Oil Filter Adapter and Drain

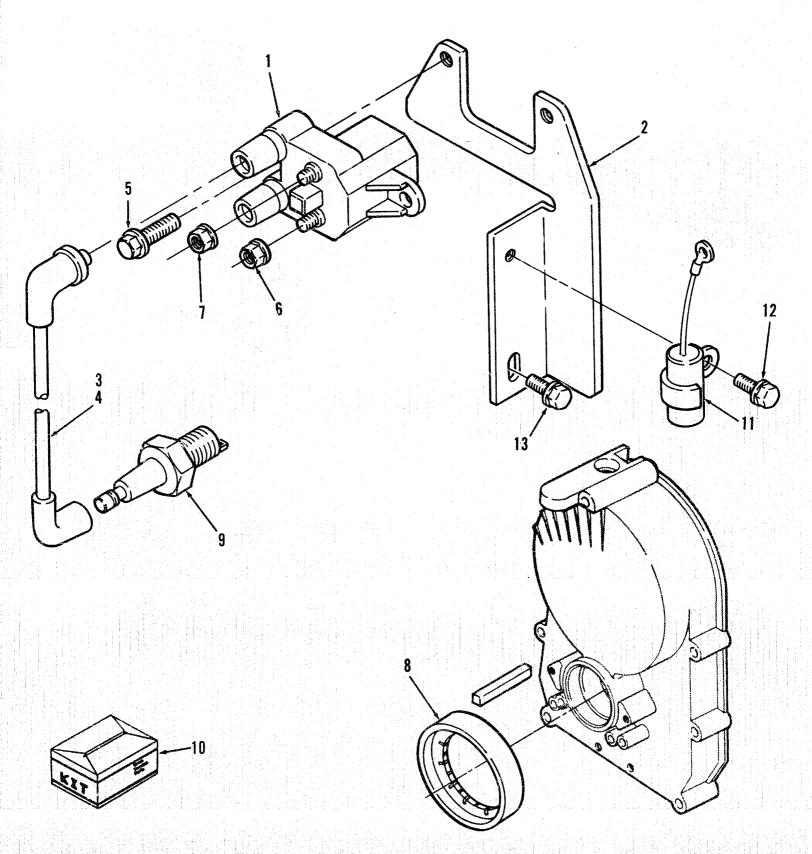


	REF NO.		PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	1	122-0320 1	Adapter, Filter - Oil	4	122-0323	1	Filter, Oil
; .	2	815-0194 2	Screw, Hex Head - Thread	5	122-0774	1	Gasket, Adapter - Oil Filter
	T		Cutting with External Tooth	6	526-0065	2	Washer, Flat - Copper
			$(#10-32 \times 3/8")$				(5/16")
	3	122-0360-53 1	Drain, Filter - Oil	7	501-0005	1	Line, Flex - Oil
	-5.1		Painted	8	800-0028	2	Screw, Cap - Hex Head
			[통결원[[전]] 된 그렇게 되어 되는 일본				(5/16-18 x 1")

Starter Components



REI NO		QTY USED		REF NO.		QTY USED	PART DESCRIPTION
	191-1630	1	Motor, Starter (Complete)	6	191-1776	1	Cap, Drive End
1	191-1817	1 m / 1	Cover, Spring	7	191-1819	1	Gear, Starter
2	191-1818	1	Retainer, Clutch	8	191-1786	1	Pin, Roll
. 3	191-1785	1	Washer, Drive	9	191-1822	1	Washer, Pinion
Δ	191-1784	1	Clutch and Spline	10	191-1820	1	Spring, Pinion
5	191-1781	ī	Cap, End	11	191-1821	1	Retainer, Spring

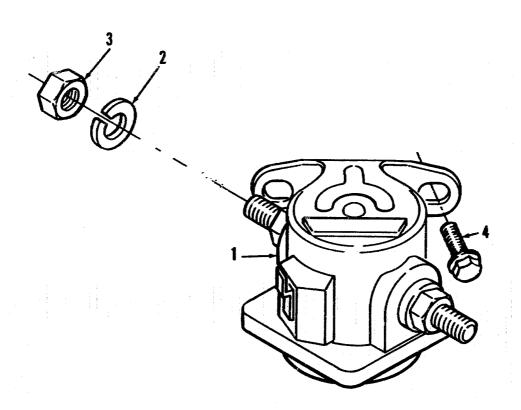


784A

Ignition Coil

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
*	166-0761	1	Coil, Battery - Ignition	8	166-0767-01	1	Rotor, Ignition
ż	166-0801	1	Bracket, Coil - Ignition	9	167-0263-01	2	Plug, Spark
3	167-1615-01	1	Lead, Tension - High	10	155-2556	1	Kit, Electronic Ignition
4	167-1602	1	Lead, Tension - High				Filter
i,	821-0015	2	Screw, Self Lock - Hex Washer	11	312-0051	1	Condenser
•			Head $(1/4-20 \times 3/4")$	12	821-0005	1	Screw, Locking - Hex Washer
6	166-0770	1	Nut, Flange - Hex (M4)				Head (#10-32 \times 1/2")
7	166-0771	1	Nut, Flange - Hex (M5)	13	815-0261	1	Screw, Thread Forming - Hex Washer Head $(1/4-20 \times 1/2^{\circ})$

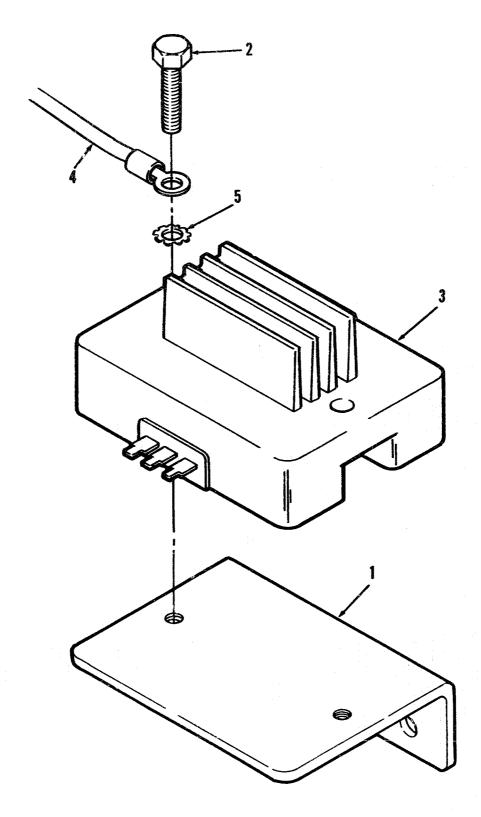
Start Solenoid Relay



783A

REF PART	QTY USED	PART DESCRIPTION		REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1 307-2344 2 850-0045	1	Relay, Solenoid - Star Washer, Lock (5/16)	*t	3	868-0002 815-0290	1 2	Nut, Hex (5/16-24) Screw, HWH (1/4-20 x .62")

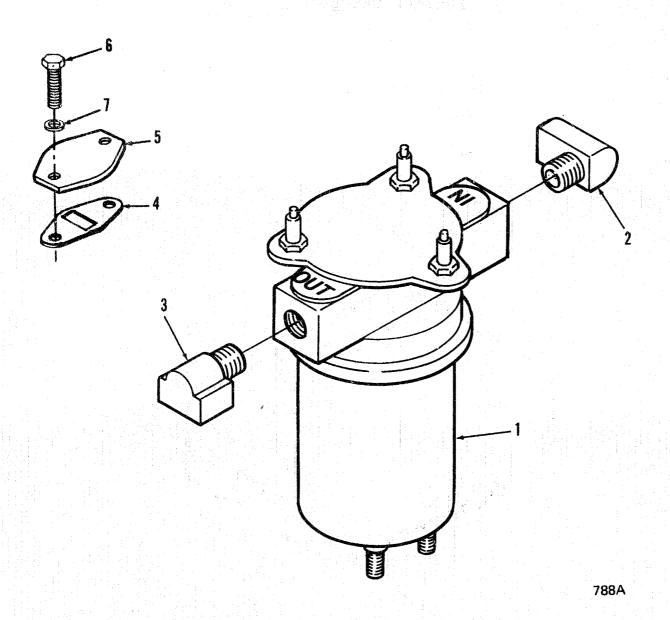
Battery Charger



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0832 319-0705	1 1	Regulator, Complete Bracket, Charger - Battery	3	305-0784 226-4014-02	1	Charger, Battery Lead
2	821-0012	2	Screw, Lock - Flange Head (1/4-20 x 1-1/8")	5	856-0006	1	Washer, Tooth - External, Internal

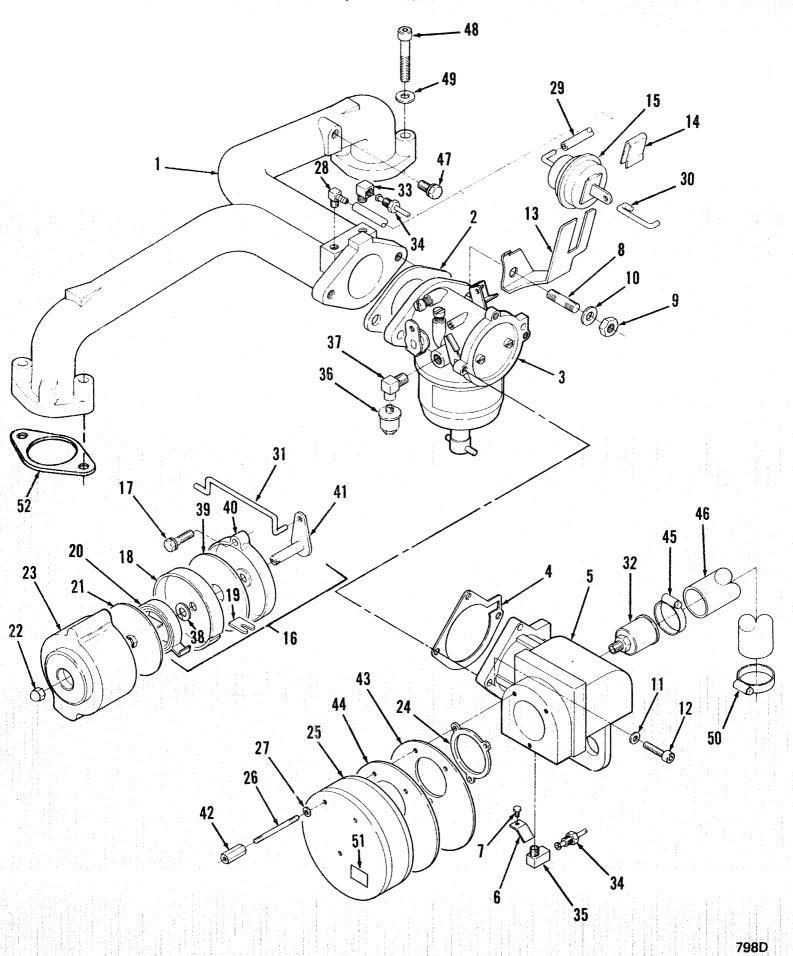
782A

Fuel Pump



REF PART	QTY	REF PART	QTY
NO. NO.	USED DESCRIPTION	NO. NO.	USED DESCRIPTION
	실범함 수십 경험생활 : 사회를 조대로 하는 것		
1 149-2159	1 Pump, Fuel	6 800-0004	2 Screw, Cap - Hex Head
2 502-0054	1 Elbow, Street - 90° Pipe		$(1/4-20 \times 5/8")$
3 502-1118	1 Elbow, Flare - Invented	7 526-0063	2 Washer, Flat - Copper
4 149-0003	1 Gasket, Fuel Pump Hole	化基金化物 医细囊切迹 计注意	(1/4")
5 140-0136	1 Cover Fuel Pump Hole		

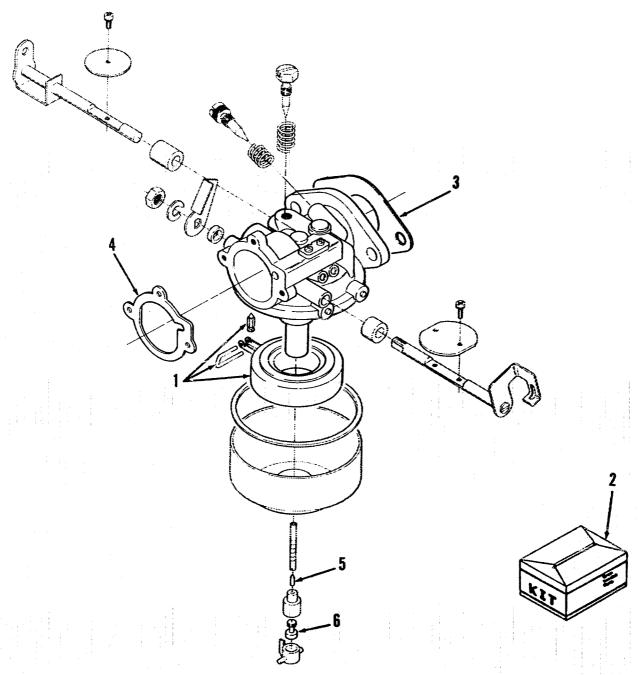
Fuel System (Gasoline)



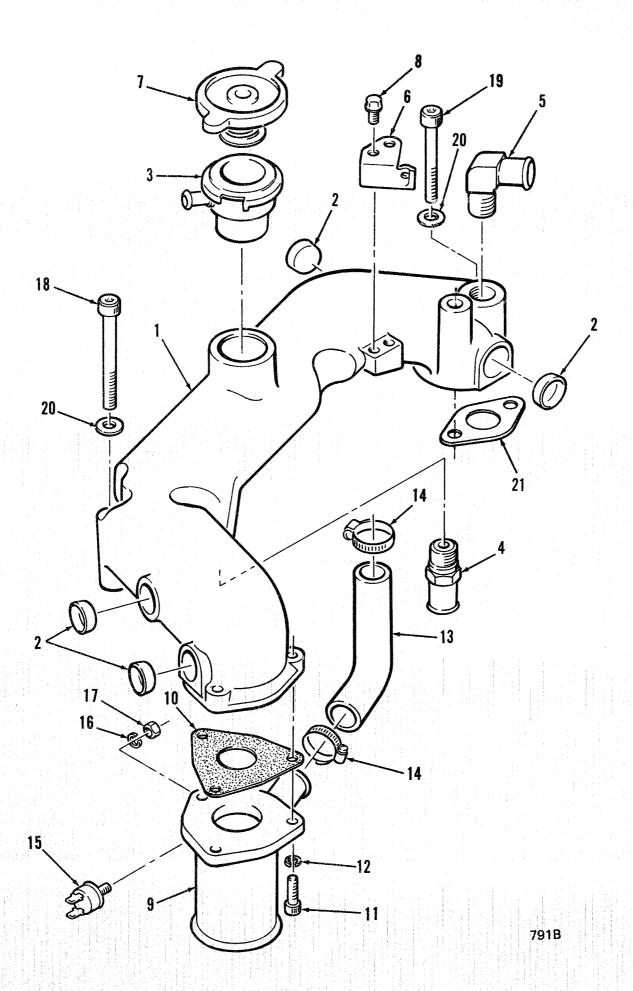
Fuel System (Gasoline)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2777	1	Manifold, Intake (Mach)	26	520-0992	3	Stud. Spark Arrester
2	141-0281	1	Gasket, Carburetor	27	856-0003	3	Washer, Lock - External/
3			Carburetor (See Separate Page				Internal Tooth (#10)
			For Components)	28	502-0871	1	Fitting, Vacuum
	146-0456	1	60 Hertz Units	29	503-1537-04	1	Hose, Vacuum (5/32 ID x
	146-0455	1	50 Hertz Units				1/4 00 x 4.7" Long)
4	140-2485	1	Gasket, Adapter	30	153-0577	1	Linkage, Pulloff
5	140-2424	1	Adapter, Carburetor (Machine)	31	153-0627	1	Linkage, Choke
6	149-2256	1.	Cover, Return - Fuel	32	145-0605	1	Arrestor, Tube - Breather
7	815 0021	1	Screw, Drive	33	502-0871	1	Fitting, Vacuum
- 8	520-0654	2	Stud, Diaphram Bracket	34	149-2268	1	Line, Return - Fuel
			$(5/8 \text{ NC} \times 7/16 \text{ NF})$	35	502-0019	1	Fitting, Elbow - Inverted Ma
			× 15/16" LG)	36	149-2279	1	Filter, Fuel
9	868-0002	2	Nut, Jam (5/16-24 UNF)	37	502-1108	1	Elbow, Street (90°)
10	526-0115	2	Washer, Flat (5/16")	38	518-0387	1	*Ring, Retaining
11	526-0071	3	Washer, Flat (#10)	39	153-0571	1	*Washer, Insulating
12	804-0018	3	Screw, Head - Socket	40	153-0563	1	*Housing, Choke
			(10-32 UNF x 5/8" LG)	41	153-0567	1	*Shaft with Lever
13	153-0629	ì	Bracket, Diaphragm	42	140-2491	3	Spacer, Threaded
3.4	518 -0450	1	Clip, "U"	43	140-2490	1	Plate, Resonator
15	153-0614	.: 1	Diaphragm	44	140-2492	1	Gasket, Resonator
16	153-0556	1	Housing, Choke	45	503-1137	1	Clamp, Hose
			(Includes Parts Marked *)	46	123-1868	1	Tube, Breather
17	815-0592	2	Screw, Hex Washer Head (8-32	47	821-0018	1	Screw, Locking - Hex Washer
			x 1-3/8") (Thread Forming)				Head $(1/4-20 \times 5/8")$
18	153-0578	1	Tube, Housing - Choke	48	802-0059	4	Screw, Cap - Hex Head
19	518-0466	1	Clip, Retaining				$(5/16-18 \times 2")$
20	153-0554	1	Element, Thermostat	49	526-0122	4	Washer, Flat (5/16)
21	153-0613	1	Cover, Choke	50	503-0131	1	Clamp, Hose
22	870-0421	ì	Nut, Cap (6-32 UNC)	51	98-5397	1	Label, Warning
23	153-0579	1	Cover, Housing - Choke	52	154-2752	2	Gasket, Intake Manifold
24	145-0601	1.	Gasket, Arrestor - Flame				
25	145-0602	1	Arrestor, Spark				
				* -	Parts Includ	led in	153-0556 Choke Housing.

Carburetor Components (Gasoline) Nikki

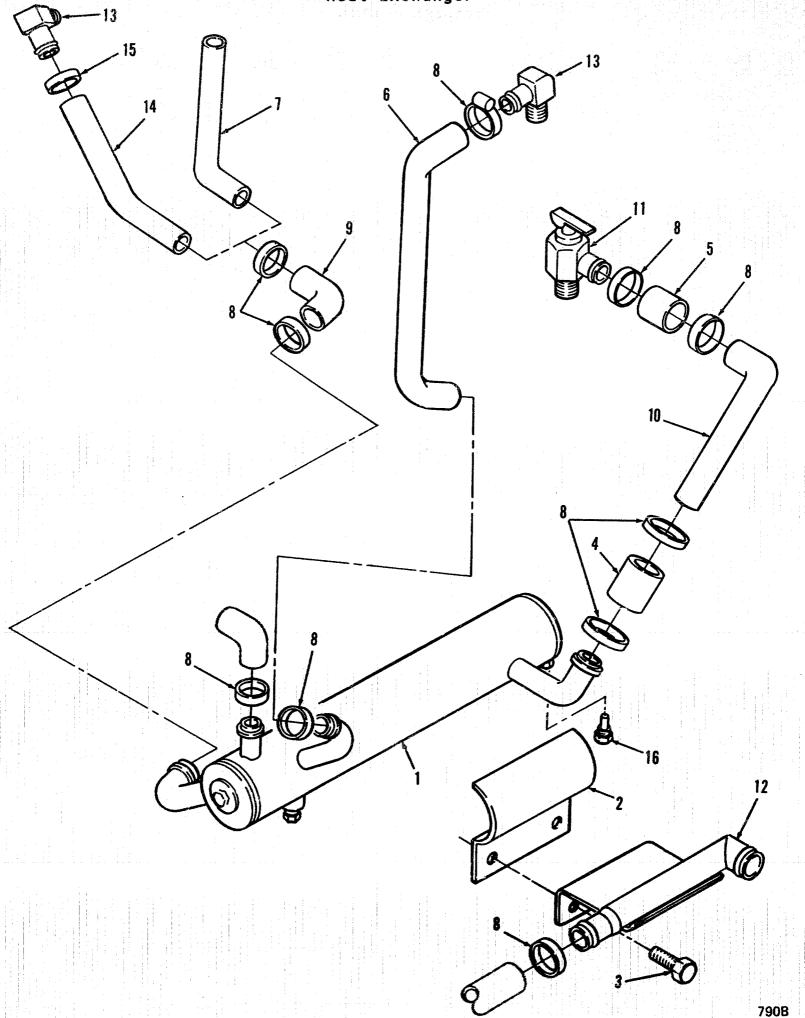


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Carburetor, Complete	3	141-0281	1	Gasket, Carburetor Mounting
			(Includes Mounting Gaskets)	4	140-2308	1	Gasket, Air Horn
	146-0455	1	50 Hertz Units	5			Jet, Idle
	146-0456	1	60 Hertz Units		146-0449	1	50 Hertz Units
1	146-0453	1	Kit, Float (Includes Float,		146-0451	1	60 Hertz Units
			Pin and Valve:	6			Jet. Power
2	146-0457	1	Kit, Repair (Includes Gasket		146-0450	1	50 Hertz Units
			Package, Float Valve, Idle		146-0452	1	60 Hertz Units
			Adjust Needle and Spring,				
		1.11	Mounting Gaskets, Adjust	:			
			Limit Caps. Throttle Stop				
			Screw and Spring)				
1.1							사람이 많아서는 사람들이 나가 되었다.



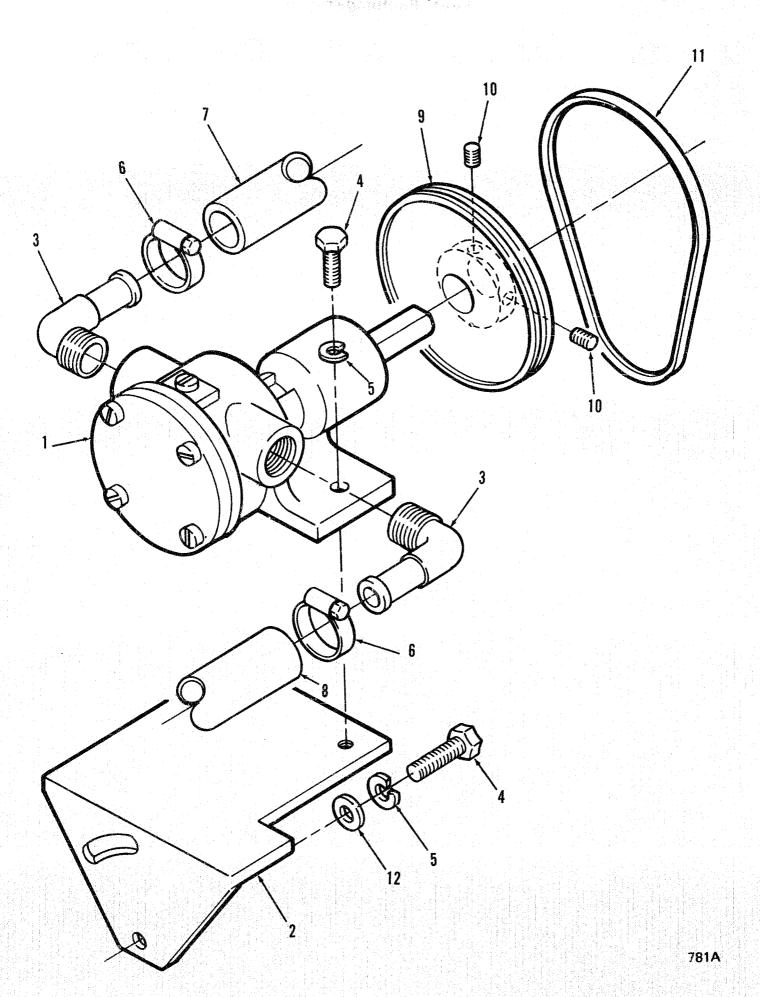
Exhaust System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2767	1	Manifold, Exhaust (Machined)	12	850-0040	3	Washer, Lock - Spring (1/4")
2	517-0276	4	Plug, Welsh	13	503-1687-03	1	Elbow, Hose (1/2)
3	130-2333	i	Neck, Filler	14	503-0977	2	Clamp, Hose
Ā	502-0943	1	fitting	15	309-0597	1	Switch, Exhaust Temperature
ā	5020942	ĩ	Elbow. Hose				- Hi
6	150-2321	1	Bracket, Governor	16	850-0025	1	Washer, Lock - Spring (#8)
\tilde{i}	130-3721	1	Cap. Radiator - 7 PSI	17	860-0008	1	Nut, Hex (8-32)
8	821-0005	2	Screw, Self-Locking - Hex Washer Head (#10-32 x 1/2")	18	802-0063	3	Screw, Cap - Socket Head (5/16-18 x 3")
9	154-2768	1	Manifold, Exhaust (Machined)	19	802-0061	1	Screw, Cap - Socket Head
10	155-2413	1	Gasket, Exhaust				$(5/16-18 \times 2-1/2")$
- 11	802 - 0034	3	Screw, Cap - Socket Head	20	526-0122	4	Washer, Flat (5/16)
			$(1/4-20 \times 3/4")$	21	154-2766	1	Gasket, Exhaust Manifold



Heat Exchanger

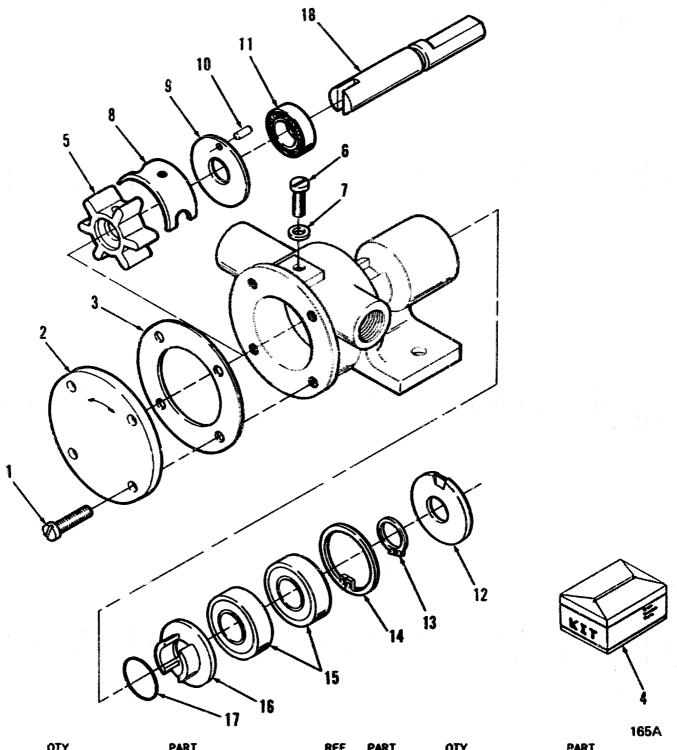
REF	PART NO.	QTY USED	PART DESCRIPTION	REI NO		QTY USED	PART DESCRIPTION
1	130-3506	1	Exchanger, Heat	9			Elbow, Hose
2	130-3507	1	Bracket, Exchanger - Heat		503-1687-02	2	1.78" Long
3	815-0508	2	Screw, Hex Head - Thread		503-1687-03	1	3.12" Long
			Forming $(5/16-18 \times 3/4")$	10	130-3513	. 1	Tube, Coolant
4	503-1690-0	1 1	Hose, Coolant	11	504-0170	1	Valve, Bleeder
5	503 - 1690 - 0	2 2	Hose, Coolant	. 12	130-3603	1	Bracket, Inlet
6	503-1688	1	Hose, Coolant	13	502-0425	2	Elbow, Hose (1/2)
7	130-3517	1	Tube, Exchange - Heat	14	503-1778	1	Hose, Coolant
- 8	503-0977	10	Clamp, Hose	15	503-0976	2	∩lamp, Hose
1. 4			맞얼마 아니라의 나이지 하다 됐네. 나	16	130-1341	1	Pencil, Zinc



Water Pump

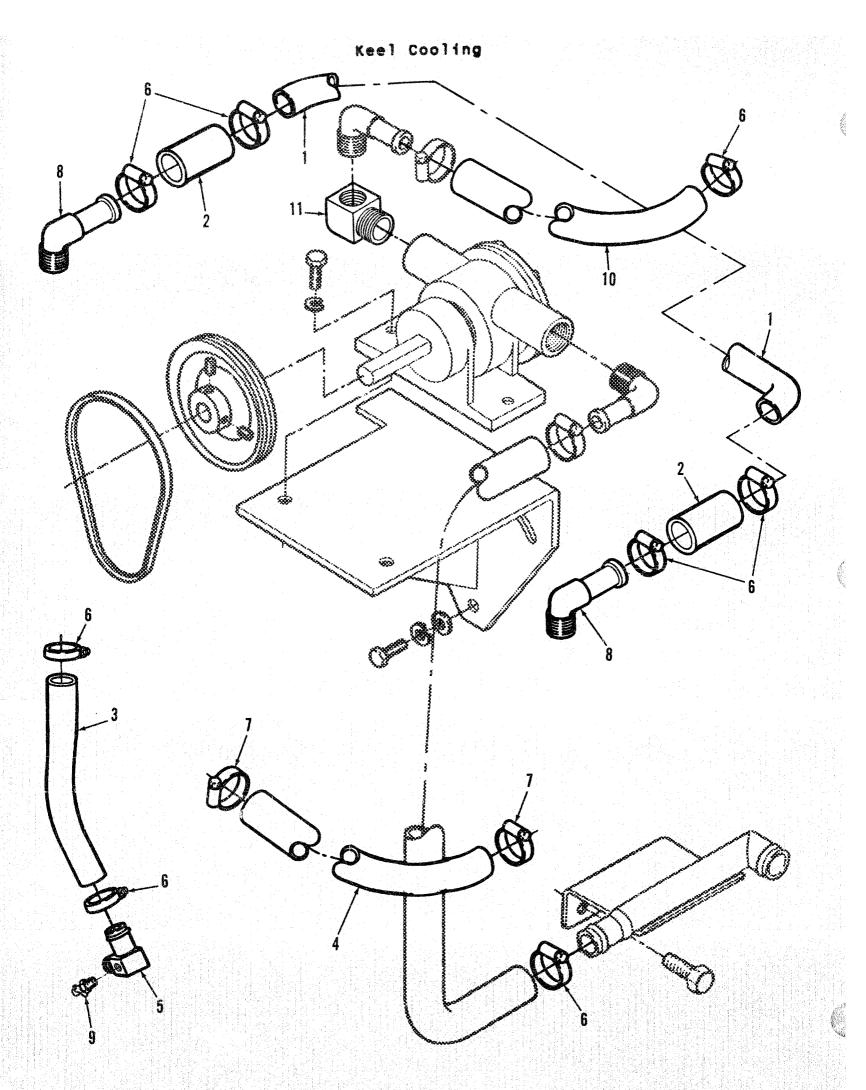
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	132-0284	1	Pump, Water (See Separate Page for Components)	7	503-1690-04	1	Hose - 8.51" Long - Heat Exchanger
2	130-3516	1	Bracket, Pump - Water	8	503-1690-06	1	Hose - 14.51" Long
3	502-0942	2	Elbow, Hose - 90°	9	512-0176	1	Puliey
4	800-0004	. 2	Screw, Cap - Hex Head	10	815-0636	2	Screw. Set (#10-32 x 3/8")
•		-	$(1/4-20 \times 5/8")$	11	511-0154-03	1	Belt, Pulley
5	850-0040	2	Washer, Lock - Spring (1/4")	12	526-0018	2	Washer, Flat (1/4")
6	503-0977	2	Clamp. Hose				

Water Pump Components



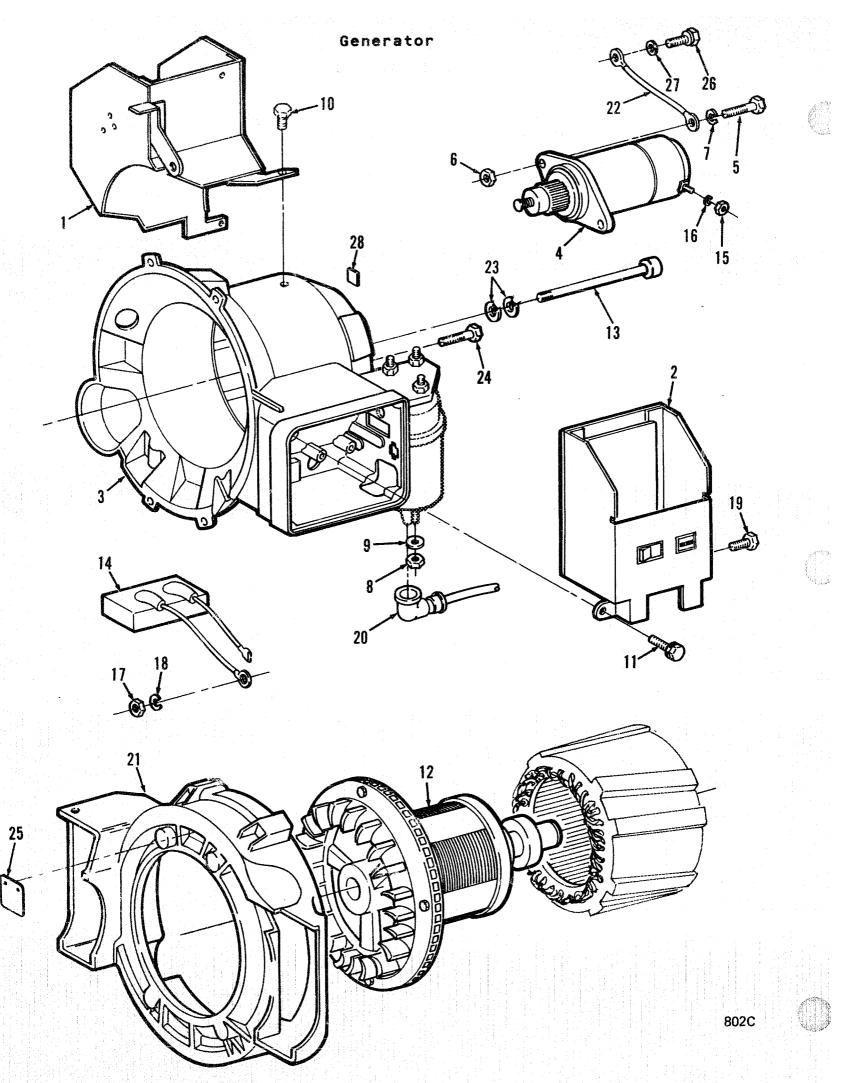
REF NO.	PART NO.	QTY USED	PART Description	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	132-0284	1	Pump, Water	8	132-0305	1	Cam
- 1	132-0312	4	*Screw, Machine - Bind Hd.	9	132-0297	1	Plate, Wear
			Brass	10	132-0295	1	Pin, Straight - Solid
2	132-0306	1	Cover	11	132-0308	1	*Sea i
3	132-0309	1	*Gasket	12	132-0303	1	Washer, Non-Metallic
4	132-0311	1	Kit. Repair (Includes Parts			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(Special)
			Marked *)	13	132-0296	1	Ring, Retaining
5	132-0310	1	*Impeller	14	132-0299	1	Ring, Retaining
6	132-0302	1	Screw. Machine - Bind Hd.	15	132-0300	2	Bearing, Ball
			Brass	16	132-0304	1	Washer/Spacer - Non-Metallic
7	132-0298	1	Washer, Flat - Copper				(Special)
	11		(Special)	17	132-0301	1	Ring, O
				18	132-0307	1	Shaft

^{* -} Parts Included in 132-0311 Repair Kit.



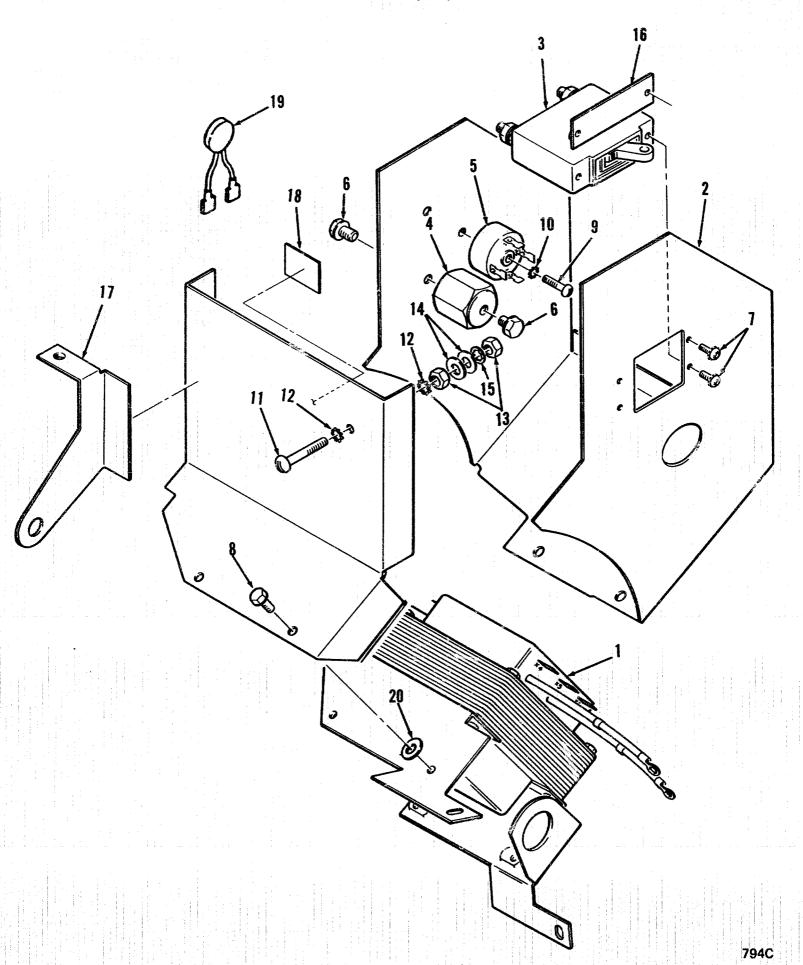
Keel Cooling

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3512	1	Tube, Coolant	7	503-0976	2	Clamp, Hose
2	503-1690-02	2	Hose, Coolant	8	502-0942	2	Elbow, Hose (5/8)
3	503-1690-03	1	Hose, Coolant	9	504-0005	1	Cock, Drain
4	503-1778	1	Hose, Coolant	10	503-1697	1	Hose, Molded
5	502-1134	1	Elbow, Drain	11	502-0075	1	Elbow, Street - 90°
6	E02-0077	0	Clama Hana				



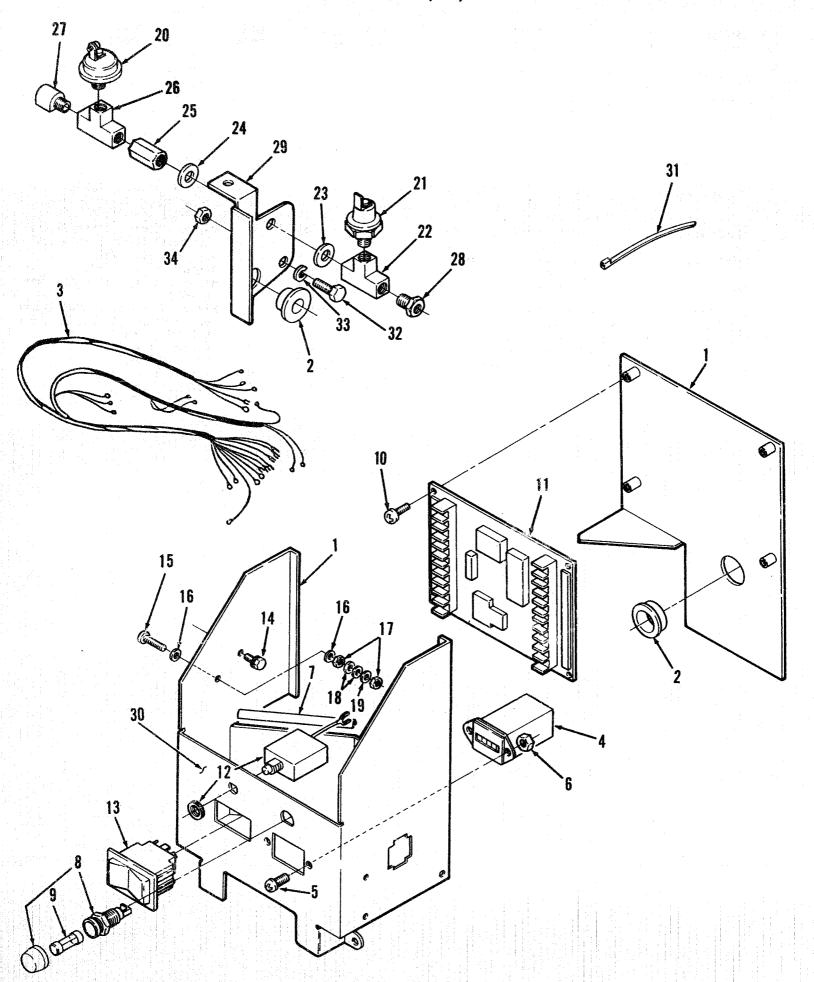
Generator

REF	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	NFS	1 :	Control, AC (See Separate	16			Washer, Lock - Spring (1/4)
			Page for Components)		850-0040	1	All Except 5.0 KW, 1 Pole,
2	NFS	1	Control, DC (See Separate				50 Hertz
			Page for Components)		850-0040	2	5.0 KW - 220 Volt, 1 Pole.
3	NFS	- 1	Housing (See Separate				50 Hertz
			Page for Components)	17	868-0002	1	Nut, Hex (5/16-24)
4	191-1630	1	Starter (See Separate Page	18	850-0045	1	Washer, Lock - Spring (5/16)
			for Components)	19	821-0005	3	Screw, Self-Locking - Hex
5	800-0052	2	Screw, Cap - Hex Head				Washer Head
			$(3/8-16 \times 1-1/2")$	20	332-2982	1	Insulator
6	862-0003	2	Nut, Hex (3/8-16)	21	231-0320	1	Adapter, Generator (Mach)
7	850-0050	2	Washer, Lock - Spring (3/8)	22	337-2435	2	Cable, Bond
8	870-0131	2	Nut, Hex - External Tooth (#10-32)	23	856-0010	2	Washer, Lock - External, Internal Tooth
9	526-0008	2	Washer, Flat (#10)	24	800-0051	1	Screw. Cap - Hex Head
10	815-0290	4	Screw, Hex Washer Head -				$(3/8-16 \times 1-1/4")$
- 7			Thread Forming $(1/4-20 \times 5/8")$	25	166-0822	1	Bracket, Ignition Control
11	815-0340	2	Screw, Hex Washer Head -	26	815-0610	1	Screw, Thread Forming - Hex
			Thread Forming (10-32 x 3/8")				Washer Head $(1/4-20 \times 1^{\circ})$
12	201-3249	1	Rotor	27	8560006	1	Washer, Lock - External,
13	802-1039	1	Screw. Socket (7/16-14 x 11.84)				Internal Tooth (1/4")
14	320-1667	1	Breaker, Circuit	28	98-2575	1	Label, Negative - Battery
15			Nut, Hex (1/4-20)				
	862-0001	1.	All Except 5.0 KW, 1 Pole,				
			50 Hertz				
	862-0001	2	5.0 KW - 220 Volt, 1 Pole,				
	· · · · · · · · · · · · · · · · · · ·		50 Hertz				



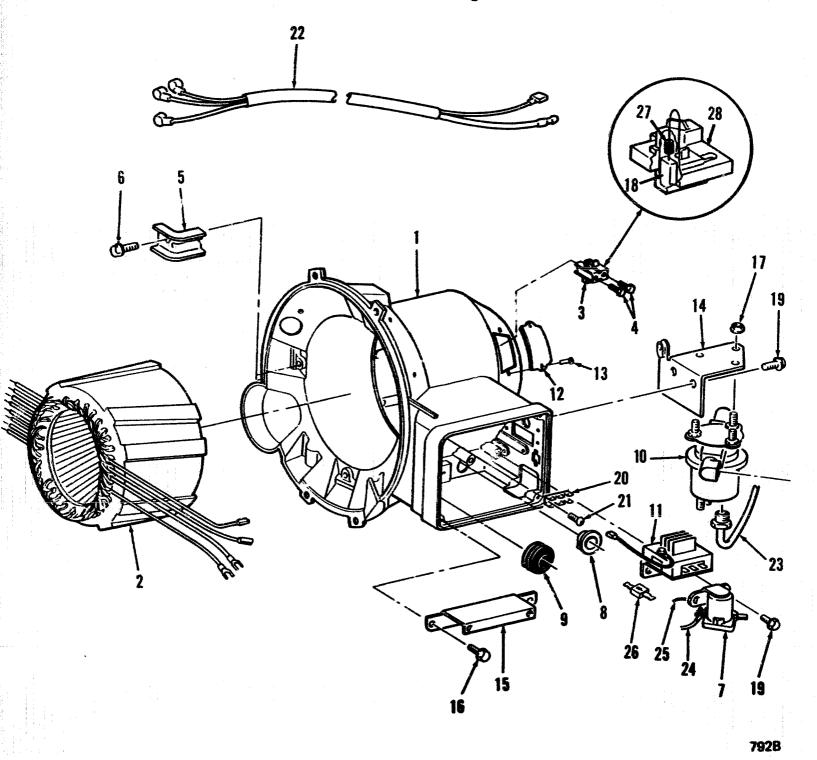
Control (AC)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	315-0718-01	1	Transformer, Regulator 50 Hertz	8			Screw, Self-Locking - Nex Head (1/4-20 x 1/2")
2 3	319-0673	1	Box, Control - AC Breaker, Circuit		821-0010	4	All Except 5.0 KW - 1 Pol- 220 Volt, 50 Hertz
	320-1672-01	1	1 Pole Used on 4.5 KW Units		821-0010	5	5.0 KW, 1 Pole, 220 Volt, 50 Hertz
	320-1672-02	1	60 Hertz Used on 6.5 KW Units	9	813-0103	1	Screw, Machine - Round Head (#10-32 x 3/4")
			60 Hertz	10	856-0003	1	Washer, Lock - External
	320-1672-03	1	Used on 5.0 KW Units 50 Hertz	11	810-0155	1	Internal Tooth (#10) Screw, Machine - Round Head
			2 Pole	••	050 0000		$(1/4-20 \times 1-1/4")$
	320-1666-01	1	Used on 4.5 KW Units 60 Hertz	12	856-0006	2	Washer, Lock - External, Internal Tooth (1/4")
	320 -1666-02	1	Used on 6.5 KW Units	13	871-0015	2 ,	Nut, Hex (1/4-20)
			60 Hertz	14	526-0052	2	Washer, Flat (1/4")
	320-1666-03	1	Used on 5.0 KW Units 50 Hertz	15	854-0014	1	Washer, Lock - Internal 100 (1/4")
4	332-2370	2	Standoff, Insulator	16	319-0834	1	Plate, Circuit Breaker (Use
5	305-0696	1	Bridge, Rectifier			1	on 1-Pole, 4.5 KW, 5.0 KW
6	821-0008	4	Screw, Self-Locking - Hex				6.5 KW Units)
			Head (1/4-20 x 5/16")	17	319-0850	1	Bracket, Control - AC
7	815-0549	4	Screw, Pan Head (#6-32 x 1/4")	18	98-6197	1	Label, Neutral
				19	305-0703	1.	Suppressor, Voltage
				20	526-0016	1	Washer, Flat (%") - 5.0 KW, 1 Pole, 220 Volt, 50 Hertz



Control (DC)

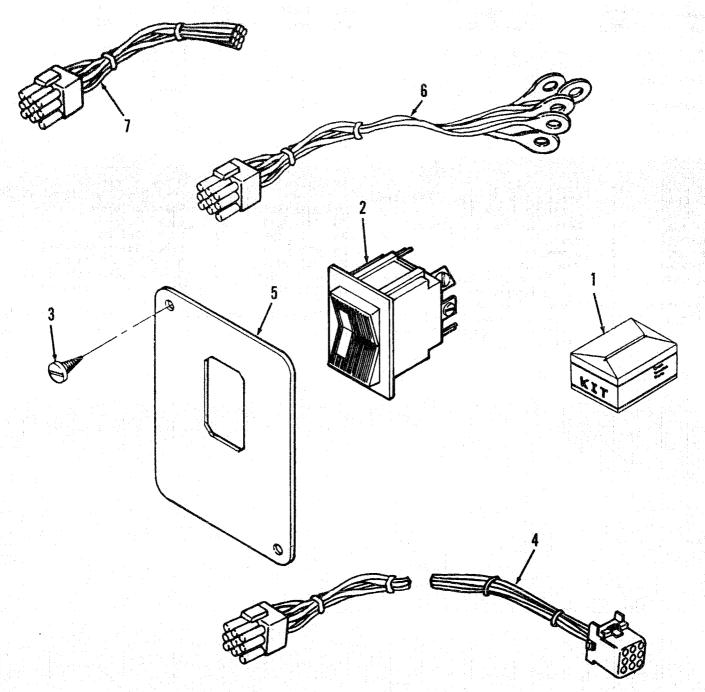
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.		QTY USED	PART DESCRIPTION
1	319-0727	1	Box, Control (Includes Back)	18	526-0052	2	Washer, Flat (1/4)
2	508-0251	2	Bushing	19	854-0014	1	Washer, Tooth - Internal (1/4)
3	338-2464	1	Harness, Control (DC)	20	309-0104	1	Switch, Low Oil Pressure -
4	302-0885	1 .	Meter, Totalizing - Time				1 Terminal, Close at 5 PSI
5	815-0385	2	Screw, Machine - Round Head (#6-32 x 1/2")	21	309-0594	1	Switch, Low Oil Pressure - 1 Terminal, Open at 6.5 to
6	870-1183	2	Nut, Hex - External Tooth			_	9.5 PSI
			(#6-32)	22	502-0079	1	Tee, Low Oil Pressure Switch
7	508-1052	1	Edging	23	854-0023	1	Washer, Lock - Internal Tooth
8	321-0305	1	Holder, Fuse				(7/16)
9	321-0146	1	Fuse, 10 Amp	24		1	Washer, Flat (3/8)
10	815-0544	4	Screw, Machine - Round Head	25	502-0175	1	Adapter, Pipe (1/8)
			(#6-32 × 1/2")	26	502-0058	1	Tee. Pipe - Special
11	300-2604	1	PCB, Monitor - Engine	27	502-0002	1	Elbow, Male - Inverted
12	320-1141	1	Breaker and Terminal	28	502-0028	1	Plug, Pipe - Hex Head (1/8)
13	308-0852	1	Switch, Rocker	29	319-0725	-1	Bracket, Control
14	821-0004	1	Screw, Self-Locking - Hex	30	98-6109	1	Silkscreen
			Washer Head (10-32 x 5/16")	31	332-1445	3	Tie, Cable
15	810-0155	1	Screw, Machine - Round Head $(1/4-20 \times 1-1/4")$	32	800-0052	1	Screw, Cap - Hex Head (3/8-16 x 1-1/2")
16	856-0006	2	Washer, Tooth - External,	33	850-0050	1	Washer, Lock (3/8)
			Internal (1/4)	34	862-0003	1	Nut, Hex (3/8-16)
17	871-0016	2	Nut, Hex (1/4-20)		•		



Stator Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	220-3977-01	1	Housing, Machine - Stator	14	149-2257	1	Bracket, Pump - Fuel
2			Stator, Wound	15	319-0666	1	Bracket, Isolation - OC
	220-4257-01	1	4.5 MCE - Voltage Code A, B 6.5 MCE - Voltage Code A, B	16	815-0340	2	Screw, Thread Forming - Hex Washer Head (10-32 x 3/8")
	220-4257-02	1	5.0 MCE - Voltage Code M 50 Hertz	17	870-0212	3	Nut, Flange - Self-Locking (1/4-20)
3	212-1285	1	Block, Generator Brush	18	214-0103	2	*Brush, Generator
			(Includes Parts Marked *)	19	815-0290	4	Screw, Thread Forming - Hex
4	815~0359	2	Screw, Thread Forming -				Washer Head $(1/4-20 \times 5/8")$
			Hex Head (10-32 x 7/8")	20	332-1815	1	Tab, Terminal
5	232-3156	4	Clamp, Stator	21	815-0387	2	Screw, Thread Cutting
6	815-0646	4	Screw, Countersunk - Thd Form				Phillip Head (#6-32 x 1/4")
			$(1/4-20 \times 3/4")$	22	338-2507	1	Harness, Block - Brush
7	307-2344	1	Relay, Solenoid - Start	23	149-2270	1	Line, Fuel
8	508-0251	1	Bushing	24	226-2426	1	Lead, Starter
9	508-0309	2	Grommet	25	226-4013	1	Lead, Start Solenoid
10	149-2159	1	Pump, Fuel	26	357-0067	. 1	Rectifier, Silicon
11	305-0832	1	Regulator (See Separate Page	27	212-1276-0	3 2	*Spring, Generator Brush
			for Components)	28	212-1286	1	*Block, With Terminal
12	212-1274	1	Cover, Block Brush				
13	815-0181	2	Screw, Hex Head Thread Cutting - External Tooth (10-32 x 1/2")	* _	Parts Inc	luded in	212-1285 Generator Brush Block

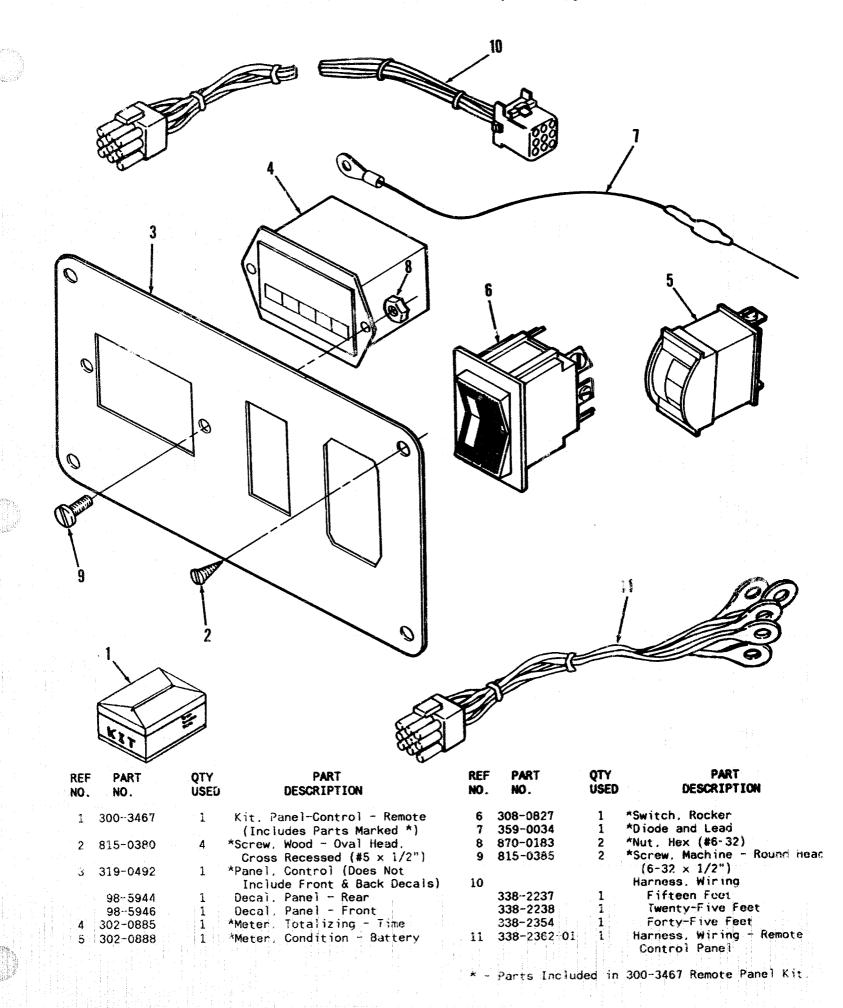
Remote Control Panel (Basic)



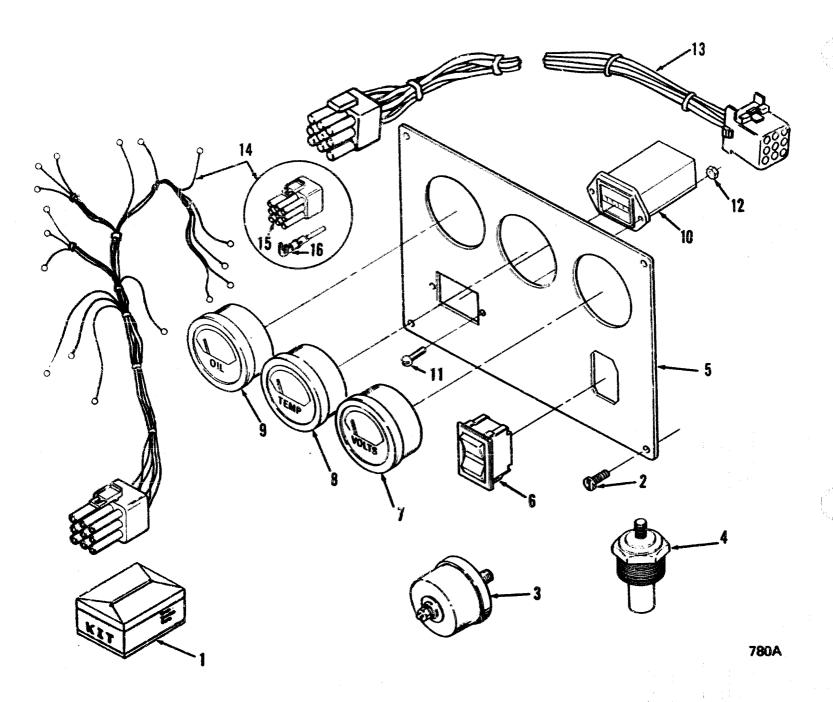
REF PART NO. NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1 300-3468	1	Kit, Panel - Control, Remote (Includes Parts Marked *)	5	319-0491	1	*Panel, Control (Does Not Include Front & Back Decals)
2 308-0827	1	*Switch, Rocker		98-5946	1	Decal, Panel - Rear
3 815-0380	2	*Screw, Wood - Oval Head		98-5949	1	Decal, Panel - Front
4		Cross Recessed (#5 x 1/2") Harness, Wiring	6	338-2362-01	1	Harness, Wiring - Remote Control Panel - 5 Wire, 9 Pin
338-2237	1	Fifteen Feet	7	338-2102	1	Harness, Remote - 9 Pin,
338-2238 338-2354	1 1	Twenty-Five Feet Forty-Five Feet				of 8 Wire half have been been as

^{* -} Parts Included in 300-3468 Remote Control Panel Kit.

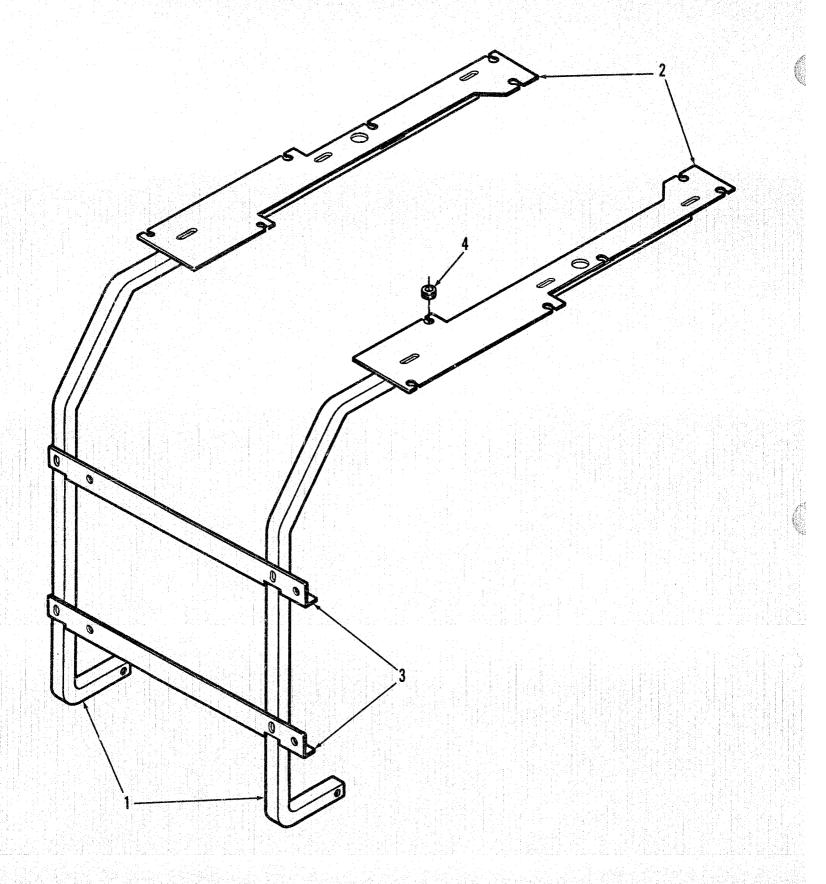
Remote Control Panel (Deluxe)



Remote Control Meter Panel Kit



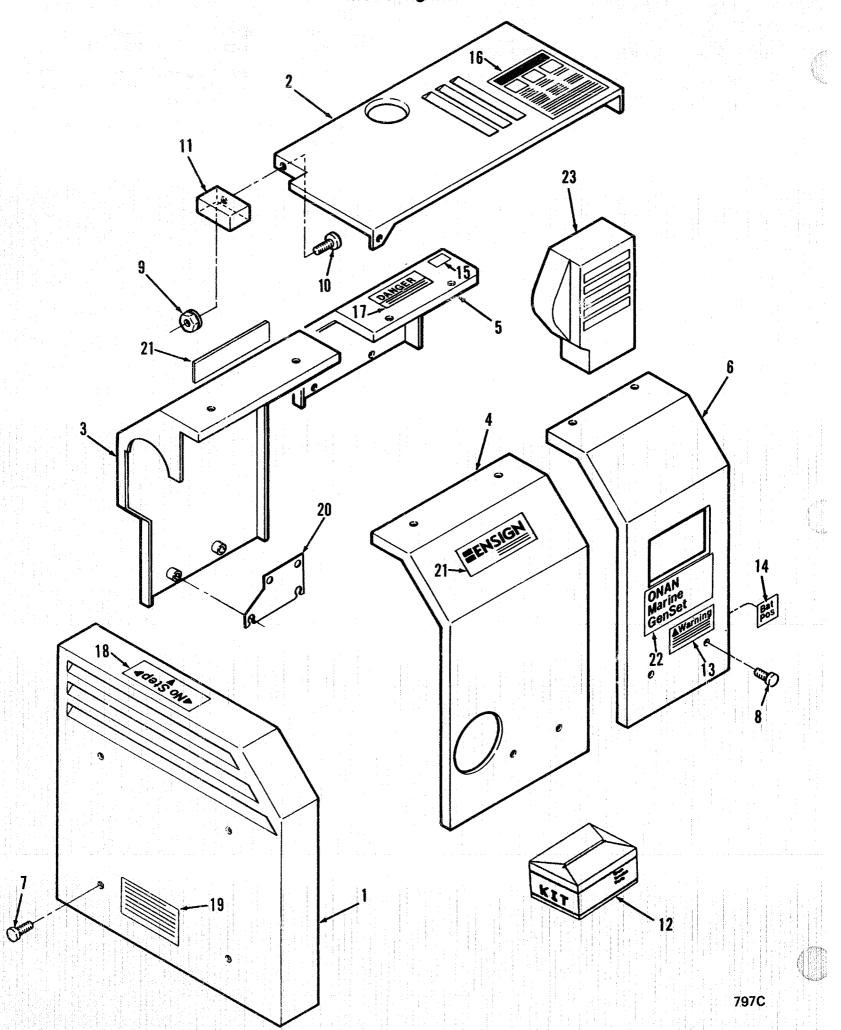
REF VO.	PART NO.	QTY USED	PART Description	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-3268		Kit, Meter Panel - Remote Control (Includes Parts	9	193-0352	1	tGauge, Oil Pressure (Includes Mounting Hardware) (M12)
			Marked *)	10	302-0885	1	tMeter, Time Totalizing (MI1)
	300-3248-01	1	* Panel, Řemote (Includes Parts Marked †)	11	815-0385	2	tScrew, Machine - Round Head (#6-32 x 1/2")
17 1	808-0023	4	*Screw, Sheet Metal - Round Head (#8 x 1/2")	12 13	870-0183	2	Nut, Hex - With ET (#6-32) Harness, Wiring
3	193-0244	1	*Sender, Oil Pressure (E1)		338-2237	1	Fifteen Feet
Δ	193-0388	ī	*Sender, Water Temperature (E2)		338-2238	1	Twenty-Five Feet
5	319-0141	ī	tPane: (Without Decals)		338-2354	1	Forty-Five Feet
ŭ.	98-5802	ī	Decal - Front	14	338-2222-01	1	Harness, Wiring - Control
	93-5761	1	Decal - Rear				Panel (Includes Housing and
6	308 0827	1	tSwitch, Rocker (S11)			11.	Pins)
7	302-1541		fMeter, Voltage	15	323-1291	1	Housing, Connector (P4)
8	193-0351	1	tGauge, Coolant Temperature (Includes Mounting Hardware) (M13)	16	323-1199	7	Pin, Contact
			(410)	* - † -	Parts Includ Parts Includ	led in	300-3268 Remote Meter Panel Kit. 300-3248-01 Remote Panel.



Housing Frame

REF PART	QTY PART USED DESCRIPTION		PART QTY NO. USED	PART DESCRIPTION
405-4317	1 Housing, Frame Assembly	2 40	05-4224 NFS	*Bracket. Frame - Housing
	(Includes Parts Marked *)	3 40)5-4225 NFS	*Bracket, Front - Housing
1 405-4228	NFS *Frame, Support - Housing	4 50	08-0310 12	*Grommet

^{* -} Parts Included in 405-4317 Housing Frame Assembly.



Housing to the state of the sta

REF	PART NO.	QTY USED	PART Description	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405- 4138	1	Housing, Guara - Beit	16	98- 6156	7	Label, Warning
2	405 -4141	1	Housing, Engine (Top)	17	98-5347	i	Label, Danger
3	405-4140	1	Housing, Engine (Left Hand)	18	98-5338	î	Label, No Step
4	405-4139	1	Housing, Engine (Right Hand)	19	98~4508	1	Label, Certification
5	319: 0567	1	Cover, Control - AC	20	405-4226	2	Bracket, Side Panel - Single
6	319 -0566	*	Cover, Control DC	2.0	400 4220		Phase
7	815-0765	4	Screw, HD Truss (1/4-20 x 1/2")	2î			Silkscreen, Identification
8	815-0767	7	Screw, HD Truss (10-32 x 1/2")	21			Mode l
9	870-0131	2	Nut, llex - External Tooth		98-6150-01	2	For Model 4.5 MCE - Voltage
10	813-0098	2	Screw, Machine - Round Head		30 0100 01	•	Code A
10	013 0030	2	(10-32 × 3/8")		98-6150-02	2	For Model 6.5 MCE - Voltage
11	405-4223	4	Cover, Siphon		30 0100 01	•	Code A
12	400 4223		Kit. Accessory		98-6150-02	2	For Model 6.5 MCE Voltage
16	542 -0550	. 1	Recovery Tank		30 0100 01	-	Code B
	542-0551	1	Less Recovery Tank	22	98-6155	1	Silkscreen
13	98 - 2899	1	Label, Warning	23	140-2489	ī	Resonator
7.4	98-4827	•	Silkscreen, Positive	20	140 2400	-	1.00011.2(0.
15	30 4021	-	Silkscreen. Breaker				
1.4	98-6196-02	1	For Model 4.5 MCE - Voltage				
	30 0130 02	-	Code A				
	98-6196-03	. 1	For Model 6.5 MCE - Voltage				
	30 0130 00	1	Code A				
	98-6196-01	,1	For Model 6.5 MCE - Voltage Code 8				

Labels, Paint, Thread Sealant and Gasket Kits

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF PART NO. NO.	QTY USED	PART DESCRIPTION
			Silkscreen, Identification -	98-6156	1	Label, Warning
			Model	98-5347	1	Label, Danger
	98-6150-01	2	For Model 4.5 MCE - Voltage	98-5338	1	Label. No Step
		_	Code A	98-4508	1	Label, Certification
	98-6150-02	2	For Model 6.5 MCE - Voltage	518-0309		Sealant, Thread
			Code A	518-0347		Sealant, Thread
	98-6150-02	2	For Model 6.5 MCE - Voltage	525-0082	1	Varnish, Insulating, 1 Gallon
		_	Code B	168-0195	1	Kit, Gasket - Engine
	98-6435-01	2	For Model 6.5 MCE - Voltage		_	(Includes Parts Marked *)
			Code A, B	101-0040	1	*Gasket - Rear Bearing Plate
	98-6435-02	2	For Model 4.5 MCE - Voltage	101-0041		*Gasket - Rear Bearing Plate
			Code A, B	102-1369	1	*Gasket - Oil Base
	98-6435-03	2	For Model 5.0 MCE - Voltage	103-0810		*Gasket - Gearcase
			Code A	110-3611		*Gasket - Cylinder Head
			Silkscreen (Logo)	110-3136		*Gasket - Valve Guide
	98-6436-01	1	For Model 6.5 MCE - Voltage	110-3604	2	*Seal - Valve Stem 11/32"
			Code A, B	110-3606		*Gasket - Valve Box
	98-6436-02	1	For Model 4.5 MCE - Voltage	120-0161	1	*Gasket - Kit - Oil Pump
			Code A, B	122-0774	1	*Gasket - Oil Filter Adapter
	98-6436-03	1	For Model 5.0 MCE - Voltage	123-1470	1	*Gasket - Oil Fill Cap
			Code A	131-0161	1	*Gasket - Water Pump
	98-6155	1	Silkscreen	140-2485	1	*Gasket - Carburetor Inlet
	98-2899	1	Label, Warning	140-2492	1	*Gasket - Resonator
	98-4827	1	Silkscreen, Positive	141-0281	1	*Gasket - Carburetor Flange
			Silkscreen, Breaker	145-0601	1	*Gasket - Flame Arrestor
	98-6196-06	1	For Model 4.5 MCE - Voltage	149-0003	2	*Gasket - Fuel Pump
			Code A - 40 Ampere	154-2752	2	*Gasket - Intake
	98-6196-07	1	For Model 6.5 MCE - Voltage	154-2766	2	*Gasket - Exhaust Manifold
	1		Code A - 60 Ampere	155-2413	1	*Gasket - Exhaust
	98-6196-05	1	For Model 6.5 MCE - Voltage	309-0186	2	*Gasket - Thermostat Housing
	15.1		Code B - 30 Ampere	509-0008		*Seal - Oil (Governor Shaft)
	98-6196-08	1	For Model 4.5 MCE - Voltage	509-0040		*Seal - Oil (Gearcase)
		_	Code B - 20 Ampere	509-0041		*Seal - Oil (Bearing Plate)
	98-6196-09	1	For Model 5.0 MCE - Voltage	509-0269		*Seal - Oil Fill Tube
			Code A - 25 Ampere			
	98-6197	1	Label, Neutral			
	98-2575	ĩ	Label. Battery Negative	* - Parts Includ	led in	168-0195 Gasket Kit.
	98-5397	ī	Label, Warning	, 4		

	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
	98-2575	37	101-0450	5	110-3622	5	130-3512	35
	98-2575	52	101-0450-02	5	110-3627	5	130-3513	29
	98-2899	51	101-0450-10	5	112-0003	8	130-3516	31
	98-2899	52	101-0450-20	5	112-0069	8	130-3517	29
	98-4508	51	101-0450-30	5	112-0179	8	130-3603	29
	98-4508	52	102-0455	13	112-0179-05	8	130-3721	27
	98-4327	51	102-1369	13	112-0179-10	8	131-0161	52
	98-4827	52	102-1369	52	112-0179-20	8	132-0284	31
	98-5338	51	102-1374	13	112-0179-30	8	132-0284	32
	98-5338	52	103-0772	11	112-0179-40	8	132-0295	32
	98-5347	51	103-0810	11	113-0238	8	132-0296	32
	98-5347	52	103-0810	52	113-0238-05	8	132-0297	32
	98-5397	23	104-0032	7	113-0238-10	8	132-0298	32
	98-5397	52	104-0043	7	113-0238-20	8	132-0299	32
	98-5761	46	104-0170	7	113-0238-30	8	132-0300	32
	98-5802	46	104-0575	5	113-0238-40	8	132-0301	32
	98-5944	45	104-0776	5	114-0022	11	132-0302	32
	98-5946	44	104-1728	7	114-0059	8	132-0303	32
	98-5946	45	104-1729	7	114 0188	8	132-0304	32
	98-5949	44	105-0140	6	114-0188-02	8	132-0305	32
	98-6109	41	105-0332	6	114-0188-10	8	132-0306	32
	98-6150-01		105-0541	6	114-0188-20	8	132-0307	32
	98-6150-01	and the second of the	110-0539	5	114-0188-30	8	132-0308	32
	98-6150-02		110-0639	5	114-0203	8	132-0309	32
	98-6150-02		110-0666	5	115-0006	5	132-0310	32
	98-6155	51	110-0872	5	115-0006-02	5	132-0311	32
	98-6155	52	110-0872-02	5	115-0006-05	5	132-0312	32
	98-6156	51	110-0872-05	5	120-0140	13	132-0326	13
	98-6156	52	110-0872-10	5	120-0161	13	140-2308	24 23
	98-6196-01		110-0872-25	5	120-0161	52	140-2424 140-2485	23
	98-6196-02		110-0880	5	120-0386 120-0398	5 13	140-2485	52
	98-6196-03		110-0893	5	120-0398		140-2489	51
	98-6196-05		110-0902	5	120-0413	13 13	140-2490	23
	98-6196-06		110-0904	5	122-0320	14	140-2491	23
	98-6196-07		110-1000	5 £	122-0323	14	140-2492	23
	98-6196-08		110-1000-02 110-1000-05	5 5	122-0323	14	140-2492	52
	98-6196-09	52 39	110-1000-05	5 5	122-0774	14	141-0281	23
	98-6197 98-6197	52	110-1000-10	5	122-0774	52	141-0281	24
	98-6435-01		110-1037	5	123-1470	52	141-0281	52
	98-6435-02		110-1827	5	123-1647	13	141-0710	11
	98-6435-02	:	110-3136	5	123-1784	5	145-0601	23
	98-6436-01		110-3136	52	123-1856	13	145-0601	52
	98-6436-02		110-3604	5	123-1857	13	145-0602	23
	98-6436-03		110-3604	52	123-1858	13	145-0605	23
	101-0040	52	110-3606	5	123-1868	23	146-0449	24
	101-0041	52	110-3606	52	130-1341	29	146-0450	24
	101-0115	5	110-3611	5	130-2333	27	146-0451	24
1	101-0367	5	110-3611	52	130-3506	29	146-0452	24
1	101-0390	5	110-3621	5	130-3507	29	146-0453	24
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Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
146-0455	23	155-2556	17	300-3468	44	321-0305	41
146-0455	24	166-0761	17	302-0885	41	323-1199	46
146-0456	23	166-0767-01	17	302-0885	45	323-1291	46
146-0456	24	166-0770	17	302-0885	46	332-1445	41
146-0457	24	166-0771	17	302-0888	45	332-1815	43
149-0003	20	166-0785-01	11	302-1641	46	332-2370	39
149-0003	52	166-0786	11	305-0696	39	332-2982	37
149-0136	20	166-0801	17	305-0703	39	337-2435	37
149-2159	20	166-0822	37	305-0784	19	338-2102	44
149-2159	43	167-0188	11	305-0832	19	338-2222-01	46
149-2256	23	167-0263-01	17	305-0832	43	338-2237	44
149-2257	43	167-1602	17	307-2344	18	338-2237	45
149-2268	23	167-1615-01	17	307-2344	43	338-2237	46
149-2270	43	168-0195	5	308-0827	44	338-2238	44
149-2279	23	168-0195	52	308-0827	45	338-2238	45
150-0075	6	191-1630	15	308-0827	46	338-2238	46
150-0078	6	191-1630	37	308-0852	41	338-2354	44
150-0939	11	191-1776	15	309-0104	41	338-2354	45
150-1187	11	191-1781	15	309-0113	13	338-2354	46
150-1358	11	191-1784	15	309-0130	5	338-2362-01	44
150-1519	64	191-1785	15	309-0185	5	338-2362-01	45
150-1520	6	191-1786	15	309-0186	5	338-2464	41
150-1695	6	191-1817	15	309-0186	52	338-2507	43
150-1998	11	191-1818	15	309-0289	5	357-0067	43
150-2321	27	191-1819	15	309-0594	41	359-0034	45
150-2324	11	191-1820	15	309-0597	27	402-0549	9
150-2325	1.1	191-1821	15	309-0601	5	402-0550	9
150-2475	, -: 1.1	191-1822	15	312-0051	17	403-2890	9
150-2500	11	193-0244	46	315-0718-01	39	403-2918	5
153-0554	23	193-0351	46	319-0141	46	405-4138	51
153-0556	23	193-0352	46	319-0491	44	405-4139	51
153-0563	23	193-0388	46	319-0492	45	405-4140	51
153-0567	23	201-3249	37	319-0566	51	405-4141	51
153-0571	23	212-1274	43	319-0567	51	405-4223	51
153-0577	23	212-1276-03	43	319-0666	43	405-4224	49
153-0578	23	212-1285	43	319-0673	39	405-4225	49
153-0579	23	212-1286	43	319-0705	19	405-4226	51
153-0613	23	214-0103	43	319-0725	41	405-4228	49
153-0614	23	220-3977-01	43	319-0727	41	405-4317	49
153-0627	23	220-4257-01	43	319-0834	39	501-0005	14
153-0629	23	220-4257-02	43	319-0850	39	502-0002	41
154-2752	23	226-2426	43	320-1147	41	502-0019	23
154-2752	52	226-4013	43	320-1666-01	39	502-0028	5
154-2766	27	226-4014-02		320-1666-02	39	502-0028	41
154-2766	52	231-0320	37	320-1666-03	39	502-0054	20
154-2767	27	232-3156	43	320-1667	37	502-0058	41
154-2768	27	300-2604	41	320-1672-01	39	502-0075	35
154-2777	23	300-3248-01	46	320-1672-02	39	502-0079	41
155-2413	27	300-3268	46	320-1672-03	39	502-0153	5
155-2413	52	300-3467	45	321-0146	41	502-0175	41

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
502-0425	29	509-0040	52	542-0551	51	815-0549	39
502-0871	23	509-0041	5	800-0004	20	815-0592	23
502-0942	5	509-0041	52	800-0004	31	815-0598	9
502-0942	27	509-0142	13	800-0007	5	815-0610	37
502-0942	31	509-0196	37	800-0007	13	815-0636	31
502-0942	35	509-0269	13	800-0012	5	815-0646	43
502-0943	27	509-0269	52	800-0028	5	815-0765	51
502-1108	23	510-0013	11	800-0028	14	815-0767	51
502-1118	20	510-0014	11	800-0034	11	820-1077	11
502-1134	35	510-0015	6	800-0051	37	821-0004	41
503-0131	23	511-0154-03	31	800-0052	37	821-0005	17
503-0170	5	512-0176	31	800-0052	41	821-0005	27
503-0761	5	515-0001	6	800-0509	5	821-0005	37
503-0976	29	515-0001	7	800-0512	5	821-0008	39
503-0976	35	515-0284	7	801-0048	13	821-0010	39
503-0977	5	516-0072	5	802-0032	13	821-0012	19
503-0977	13	516-0130	11	802-0034	27	821-0015	17
503-0977	27	516-0141	5	802-0059	23	821-0018	9
503-0977	29	517-0011	5	802-0061	27	821-0018	23
503-0977	31	517-0048	5	802-9063	27	821-0031	9
503-0977	35	517-0276	27	802-1039	37	850-0025	27
503-1137	23	518-0006	11	804-0018	23	850-0040	5
503-1537-04		518-0014	7	805-0010	8	850-0040	13
503-1686	13	518-0309	52	808-0023	46	850-0040	27
503-1687-02		518-0347	52	810-0155	39	850-0040	31
503-1687-02		518-0387	23	810-0155	41	850-0040	37
503-1687-03		518-0450	23	813-0098	51	850-0045	5
503-1687-03		518-0466	23	813-0103	39	850-0045	11
503-1688	29	520-0654	23	815-0021	23	850-0045	18
503-1690-01		520-0992	23	815-0046	11	850-0045	37
503-1690-02		525-0082	52	815-0181	43	850-0050	13
503-1690-02		526-0008	37	815-0194	14	850-0050	37
503-1690-02		526-0016	39	815-0261	17	850-0050	41
503-1690-03		526-0017	7	815-0290	18	850-0055	7
503-1690-04		526-0018	13	815-0290	37	854-0010	11
503-1690-06	and the second second	526-0018	31	815-0290	43	854-0014	39
503-1697	35	526-0026	41	815-0333	13	854-0014	41
503-1778	29	526-0052	39	815-0340	11	854-0023	41
503-1778	35	526-0052	41	815-0340	37	856-0003	23
504-0005	35	526-0063	5	815-0340	43	856-0003	39
504-0092	13	526-0063	20	815-0359	43	856-0006	9
504-0170	29	526-0065	14	815-0380	44	856-0006	19
508-0251	41	526-0066	13	815-0380	45	856-0006	37
508-0251	43	526-0071	23	815-0385	41	856-0006	39
508-0309	43	526-0115	23	815-0385	45	856-0006	41
508-0309	43 49	526-0175	23	815-0385	46	856-0010	37
508-1052	41	526-0122	23 27	815-0387	43	860-0008	27
509-0008	11	526-0240	9	815-0508	9	862-0001	37
	and the second second		9	815-0508	29	862-0003	37
509-0008	52	526-0324			41	862-0003 862-0003	41
509-0040	11	542-0550	51	815-0544	* !	0.22-0003	***

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
868-0002	18						
868-0002	23						
868-0002	37						
870-0131	11						
870-0131	37						
870-0131	51						
870-0183	45						
870-0183	46						
870-0212	9		Paragraphic 🗸				
870-0212	43						
870-0328	11						
870-0421	23						
870-1183	41						
871-0015	39						
871-0016	41						